SCHEMATIC DIAGRAMS
MOD'S

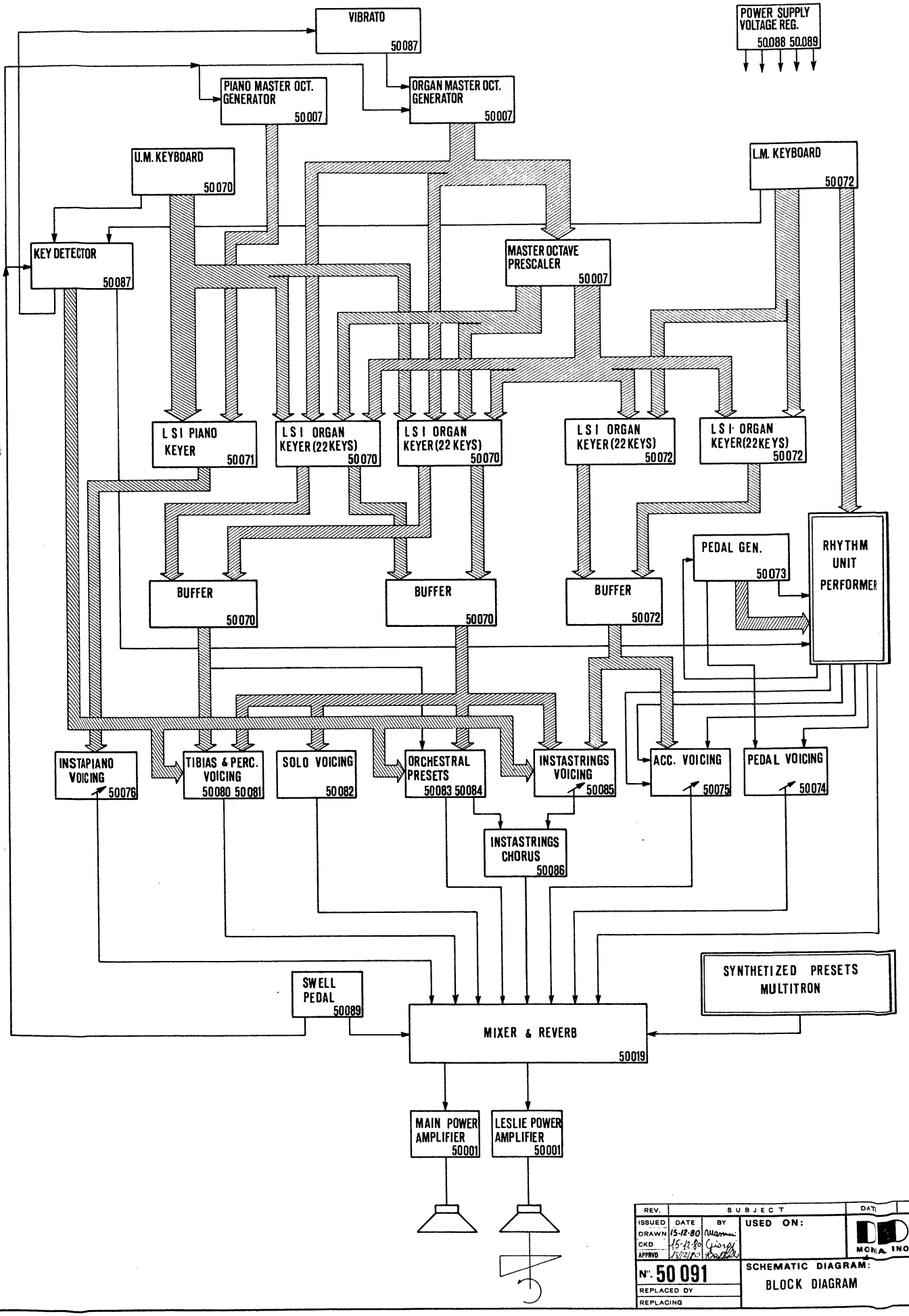
H 6000 & H 7000

ELECTRONIC ORGANS

GEM® A PRODUCT OF general electro music

MONDAINO · FO · ITALY

H6000



REV.	SUBJECT	DATE	CKD
ISSUED	DATE 15-12-80 BY	USED ON:	
DRAWN	15-12-80		
CKD	15/12/80		
APPRVD			

N°. 50 091

REPLACED BY

REPLACING

SCHEMATIC DIAGRAM:

BLOCK DIAGRAM

MONZA INO (FO)

NOTES:

ISSUED	DATE	BY
DRAWN		
CKD		
APPVD		

N SO 1349

REPLACED BY

REPLACING

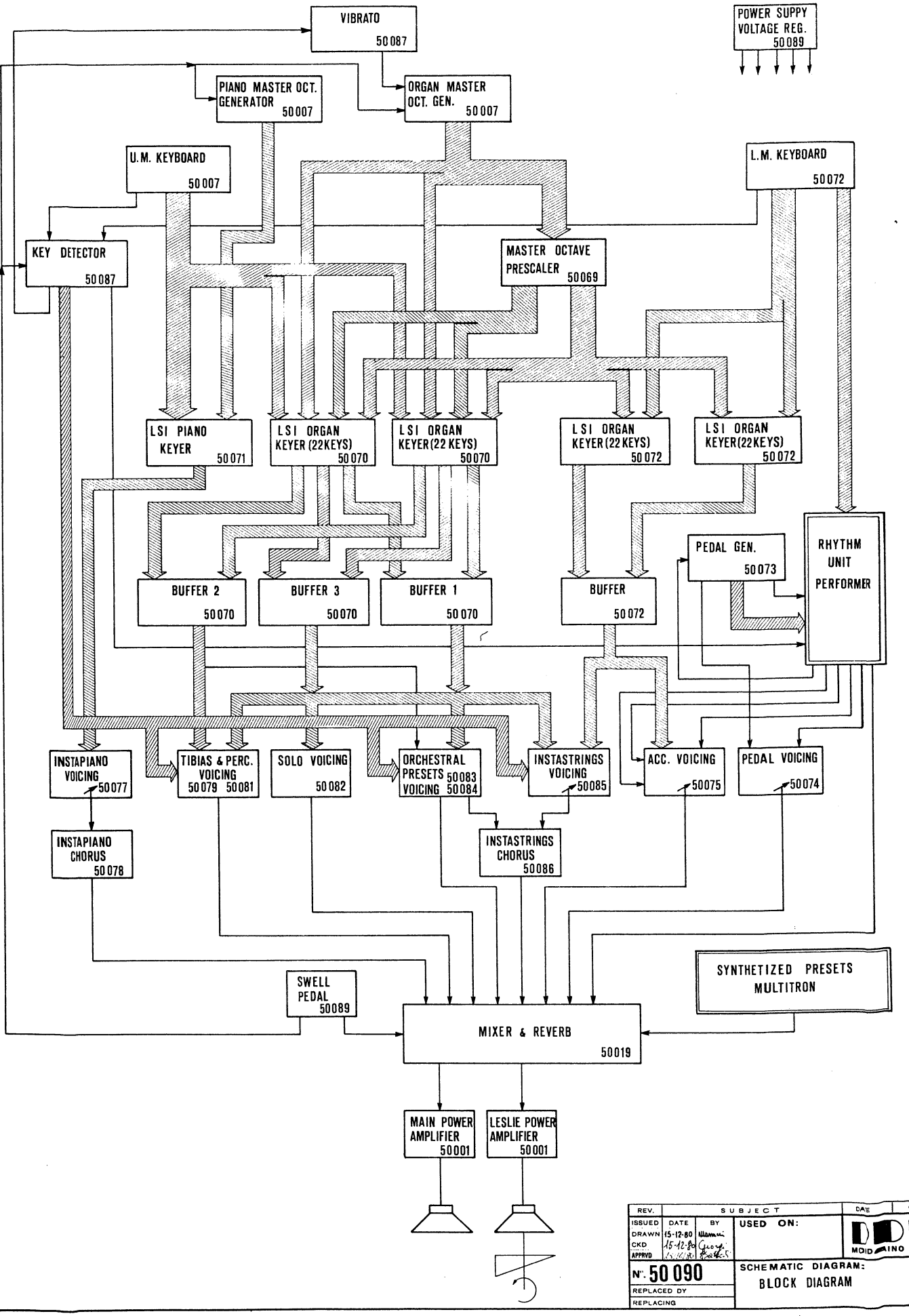
USED ON:

DDR DAINO (FO)

SCHEMATIC DIAGRAM

NOTES

H7000



REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	15-12-80		
CKD	15-12-80		
APPRVD			

N°. 50 090

REPLACED BY

REPLACING

SCHEMATIC DIAGRAM:
BLOCK DIAGRAM

NOTES:

ISSUED	DATE	BY
DRAWN		
CKD		
APPVD		

N 50 032

REPLACED BY

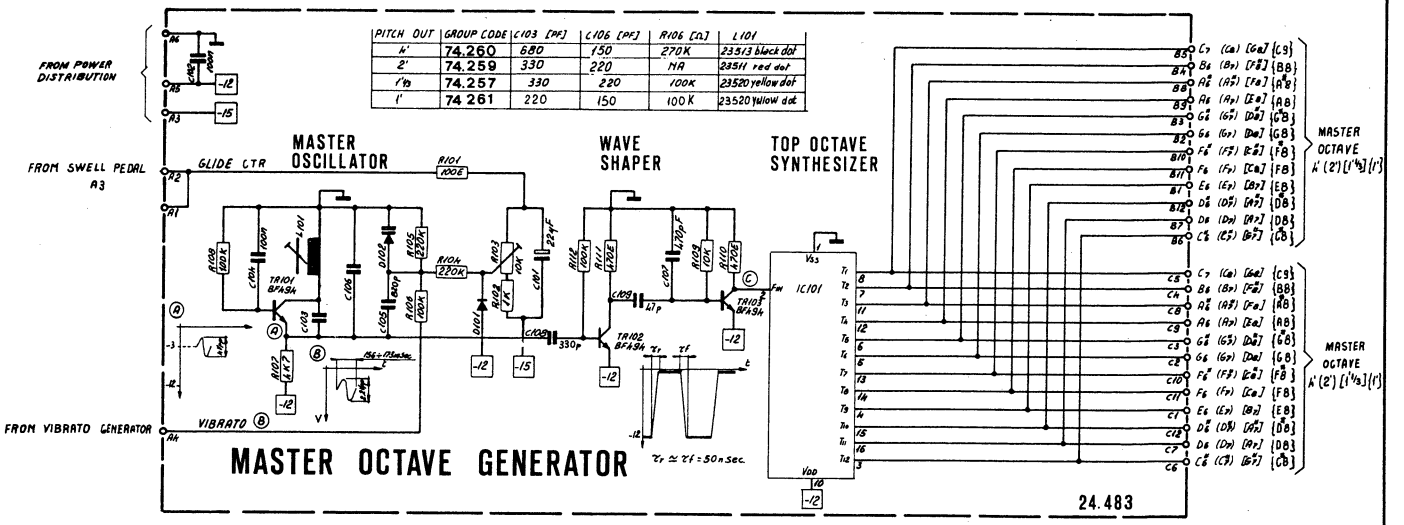
REPLACING

USED ON:

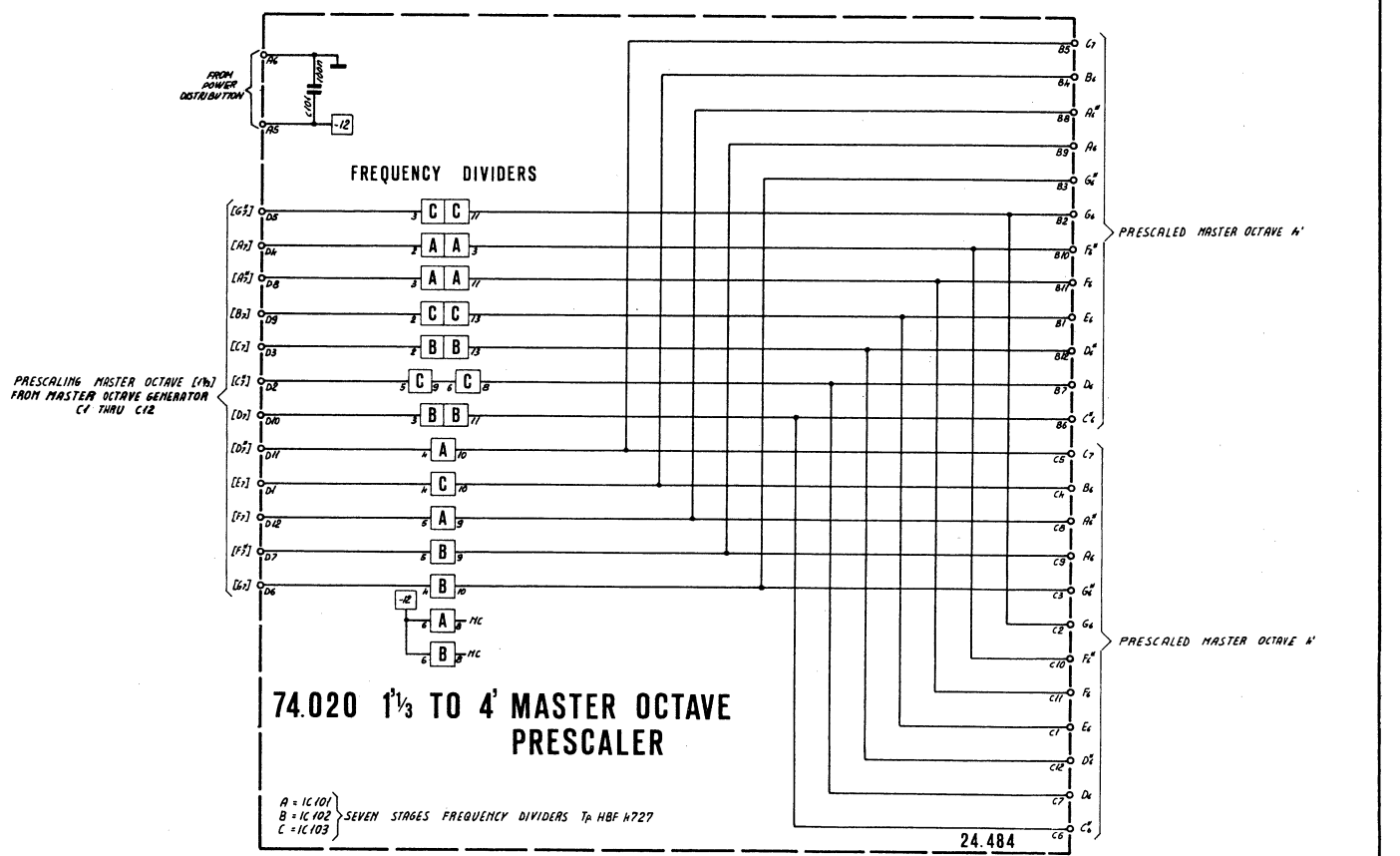
DDR N/M AINO (FO)

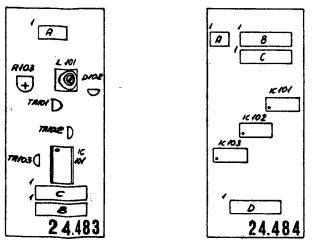
SCHEMATIC DIAGRAM

NOTES



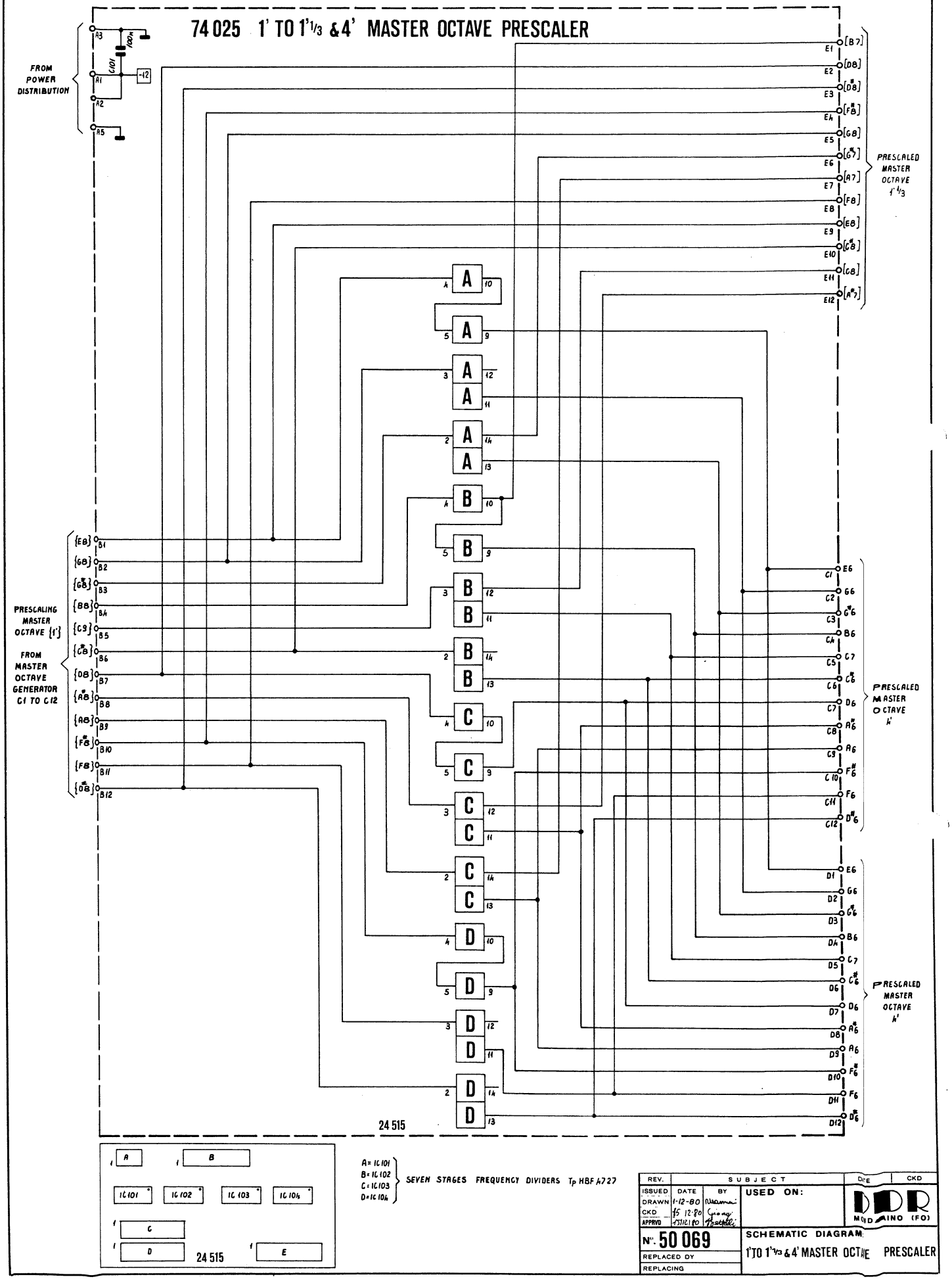
PITCH OUT	GROUP CODE	C103 [PF]	C106 [PF]	R106 [Ω]	L101
4'	74.260	680	150	270K	23513 black dot
2'	74.259	330	220	MA	23511 red dot
1'⅓	74.257	330	220	100K	23520 yellow dot
1'	74.261	220	150	100K	23520 yellow dot


FROM POWER DISTRIBUTION
FREQUENCY DIVIDERS
PRESCALING MASTER OCTAVE [1⅓] FROM MASTER OCTAVE GENERATOR C1 THRU C12
PRESCALED MASTER OCTAVE 4'
PRESCALED MASTER OCTAVE 4'
74.020 1'⅓ TO 4' MASTER OCTAVE PRESCALER
A = IC 101
B = IC 102
C = IC 103
SEVEN STAGES FREQUENCY DIVIDERS Tp HBF 4727
24.484



NOTES: 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL REPORTED WAVEFORMS AS WIEVED WITH 10 MHz SCOPE WITH LOW CAPACITANCE PROBE

REV.	SUBJECT	DATE	CKD
ISSUED	DATE 5-12-80 BY marmi	USED ON:	DDR MONDAINO (FO)
DRAWN			
CKD	15-12-80 Giorgi		
APPRVD	15/12/80 Bottoli		
Nº. 50 007		SCHEMATIC DIAGRAM: MASTER OCTAVE GENERATOR & 1'⅓ TO 4' MASTER OCTAVE PRESCALER	
REPLACED BY			
REPLACING			



A= IC 101
B= IC 102
C= IC 103
D= IC 104
SEVEN STAGES FREQUENCY DIVIDERS Tp HBF 4727

REV.	SUBJECT	DATE	CKD
ISSUED			
DRAWN		1-12-80	
CKD		15 12-80	
APPRVD		17/12/80	

USED ON:

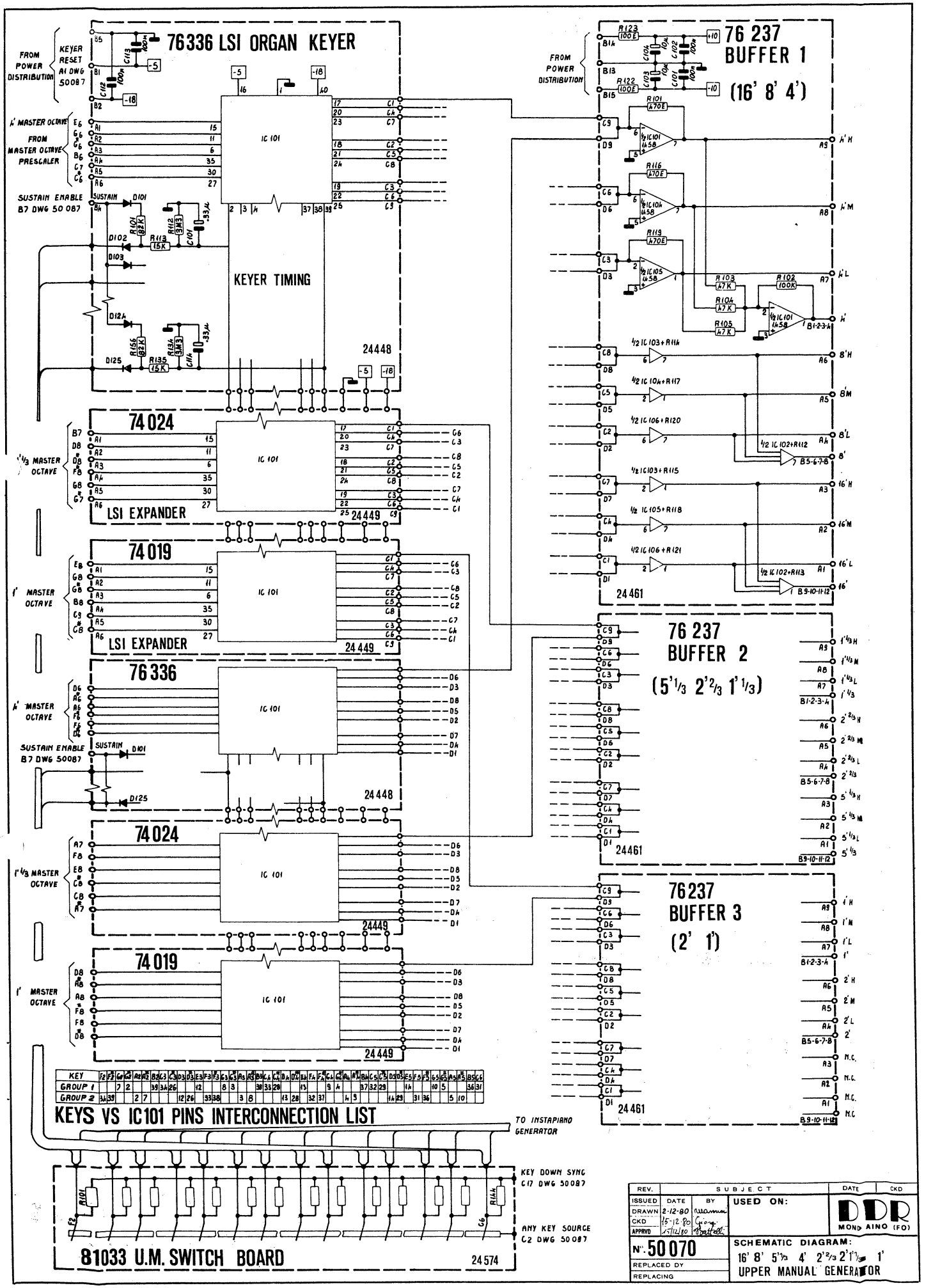
DDR MOD AINO (FO)

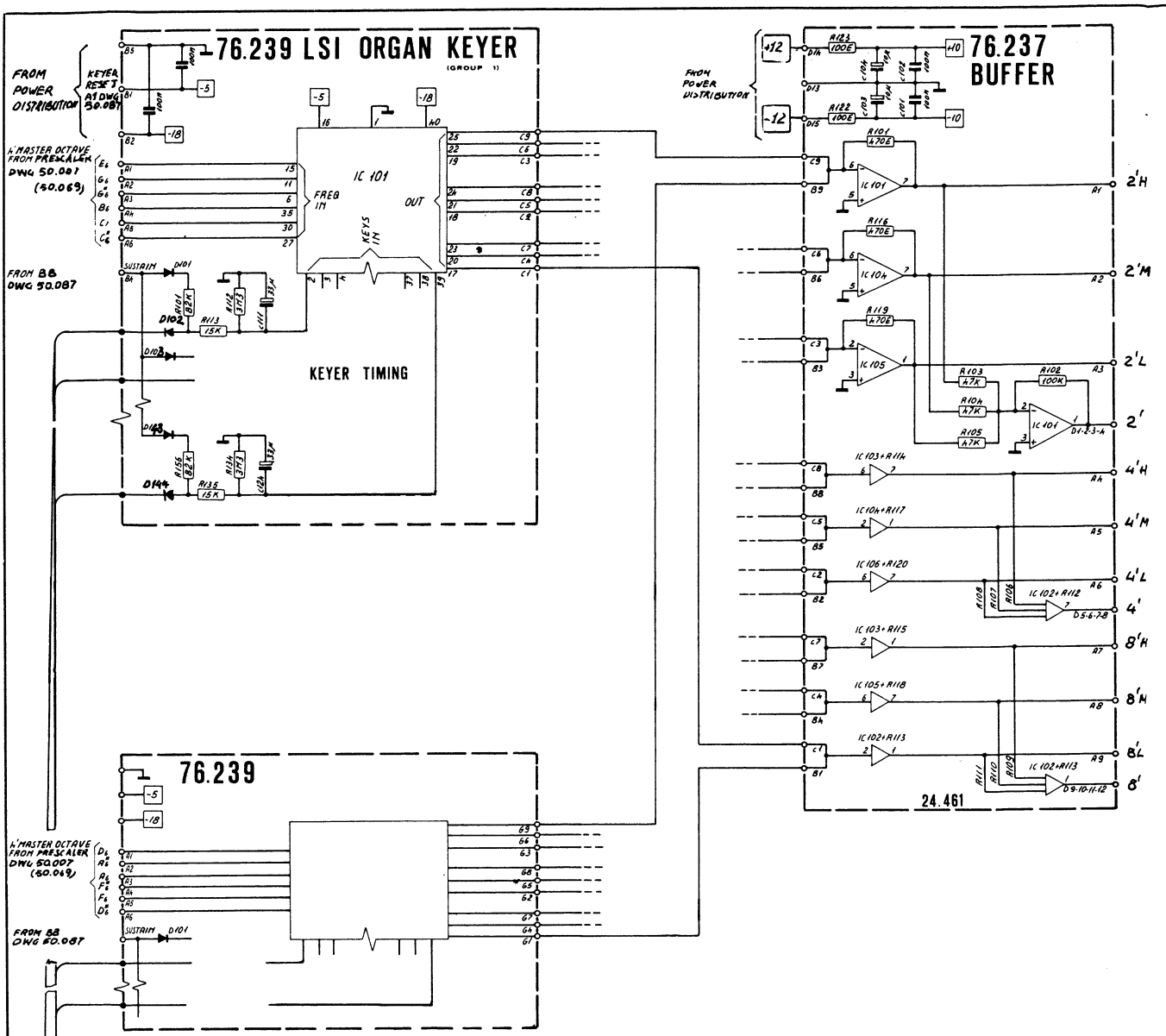
N°. 50 069

SCHEMATIC DIAGRAM:
1'TO 1'1/3 &4' MASTER OCTAVE PRESCALER

REPLACED DY

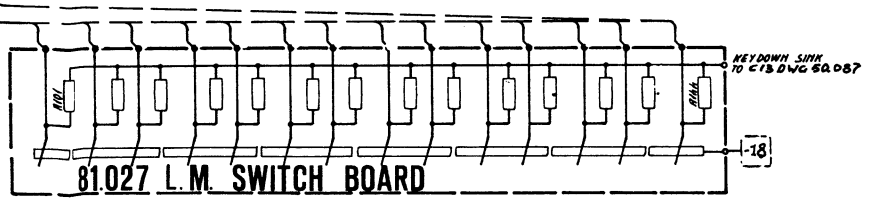
REPLACING


76336 LSI ORGAN KEYER
FROM POWER DISTRIBUTION
KEYER RESET AI DWG 50087
4' MASTER OCTAVE
FROM MASTER OCTAVE PRESCALER
SUSTAIN ENABLE B7 DWG 50 087
IC 101
KEYER TIMING
24448
74 024
LSI EXPANDER
1 1/3 MASTER OCTAVE
24449
74 019
1' MASTER OCTAVE
76 336
2' MASTER OCTAVE
1 1/3 MASTER OCTAVE
74 024
1' MASTER OCTAVE
74 019
76 237
BUFFER 1
(16' 8' 4')
24461
76 237
BUFFER 2
(5'1/3 2'2/3 1'1/3)
76237
BUFFER 3
(2' 1')
KEYS VS IC101 PINS INTERCONNECTION LIST
TO INSTAPIANO GENERATOR
KEY DOWN SYNC C17 DWG 50087
ANY KEY SOURCE C2 DWG 50087
81033 U.M. SWITCH BOARD
24574
SUBJECT
USED ON:
DDR MOND AINO (FO)
N°. 50070
SCHEMATIC DIAGRAM:
16' 8' 5'1/3 4' 2'2/3 2'1'1/3 1'
UPPER MANUAL GENERATOR



KEY	1	F♯	G	G♯	A	A♯	B	C	C♯	D	D♯	E	F	F♯	G	G♯	A	A♯	B	C'	C♯'	D'	D♯'	E'	F'	F♯'	G'	G♯'	A'	A♯'	B'	C''	C♯''	D''	D♯''	E''	F''	F♯''	G''	G♯''	A''	A♯''	B''	C'''
GROUP 1			7	2			39	34	26			12			8	3			38	33	28			13			9	14			37	32	29			11			10	5			36	31	
GROUP 2	34	39			2	7			12	24		33	38			3	8			13	28			32	37			4	9			11	29			31	36			5	10					

KEYS V S IC101 PINS INTERCONNECTION LIST



NOTES: 1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 333 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

	DATE	BY
ISSUED		
DRAWN	23/10/77	J. Sandoval
CKD	25-10-77	Gianni
APPRVD	28/10	Rodolfo

USED ON:

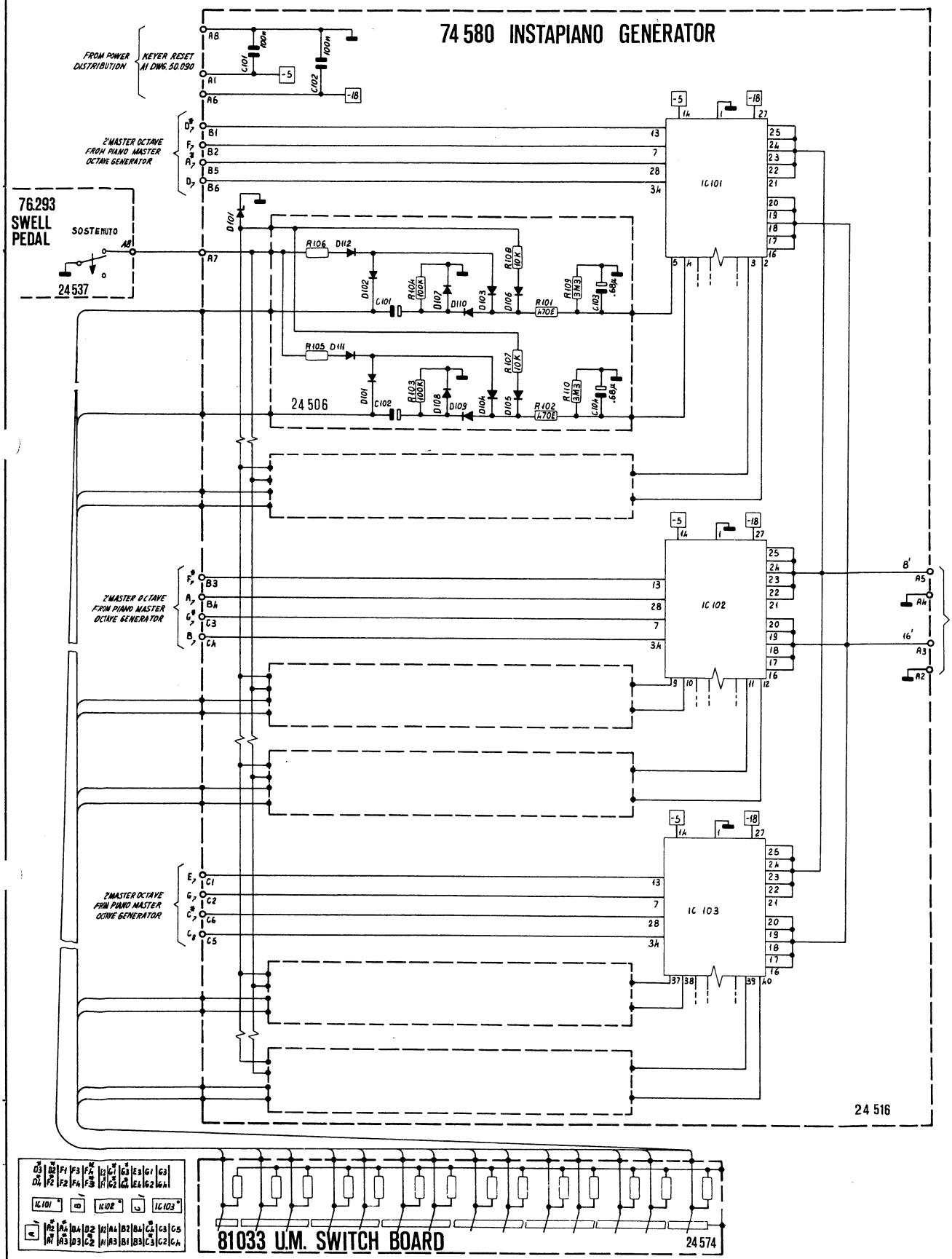
DDR MONTAINO (FO)

Nº. 50.072

REPLACED DY

REPLACING

SCHEMATIC DIAGRAM:
LOWER MANUAL GENERATOR



KEY	F	F#	G	G#	A	A#	B	C	C#	D	D#	E	F	F#	G	G#	A	A#	B	C	C#	D	D#	E	F	F#	G	G#	A	A#	B	C
C	10 µ								6 µ 8												4 µ 7											
R	330 K								270 K												220 K											
IC 101	5					30				38	40		4					31			39	11		3				32			40	12		2				33	
IC 102	9		5		30		37					40			4		31		38				11		3		32		39					12		2	33		40
IC 103			5			37	31			40			4							38	32		11		3				38	33			12		2			40
CODE	74581								74582																							

REV.	SUBJECT	DATE	CKD
ISSUED	DATE 3-12-80	BY Guarnaccia	
DRAWN	16-12-80	Gorgi	
CKD	15/12/80	Battel	
APPRVD			

USED ON:

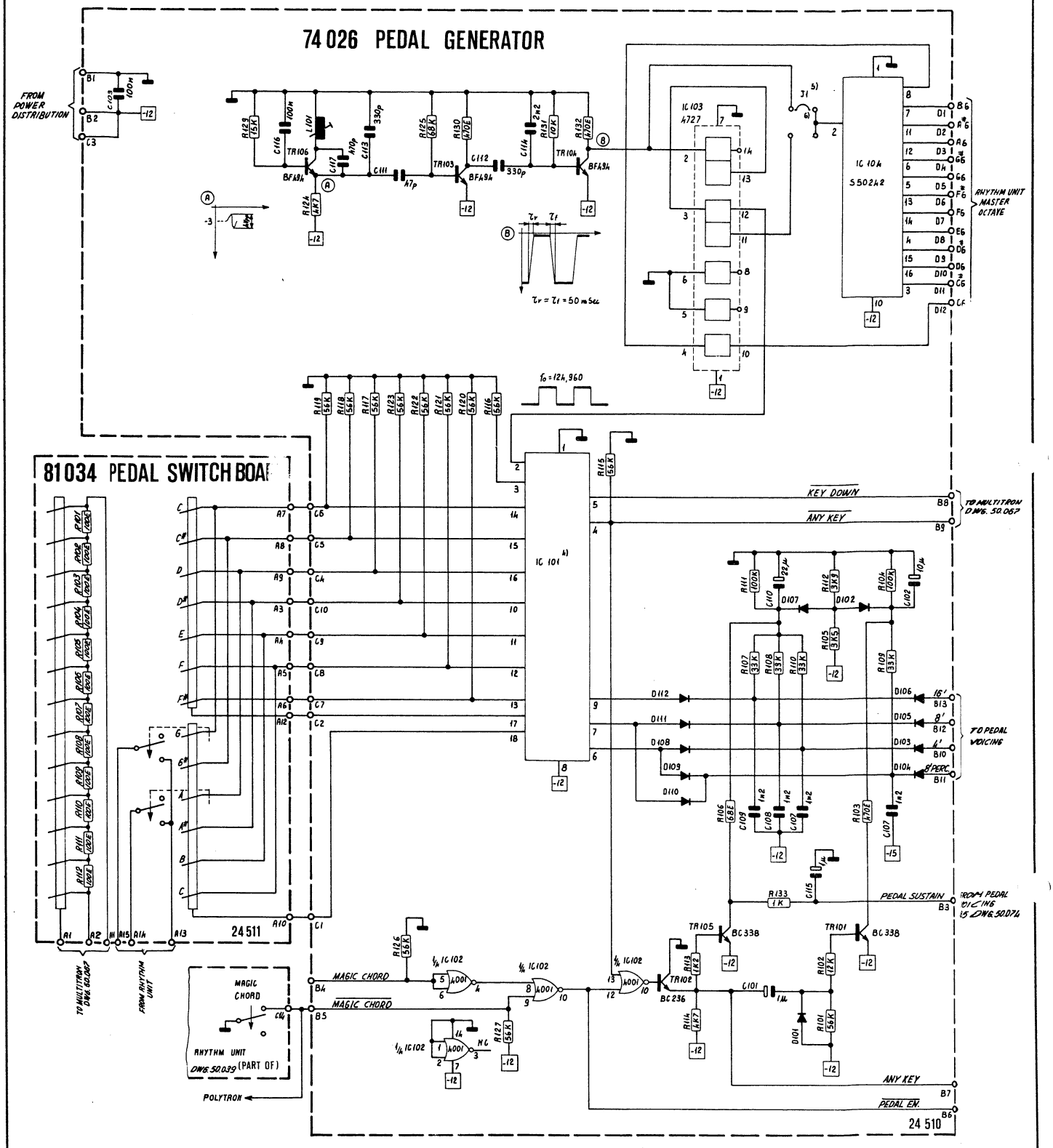
DDR MONDAINO (FO)

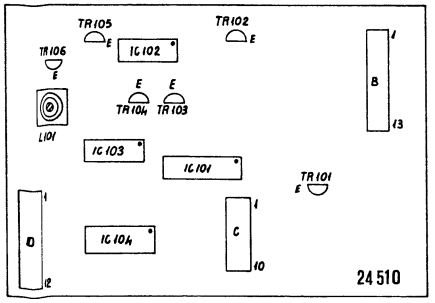
N°. 50 071

REPLACED BY

REPLACING

SCHEMATIC DIAGRAM:
INSTAPIANO GENERATOR





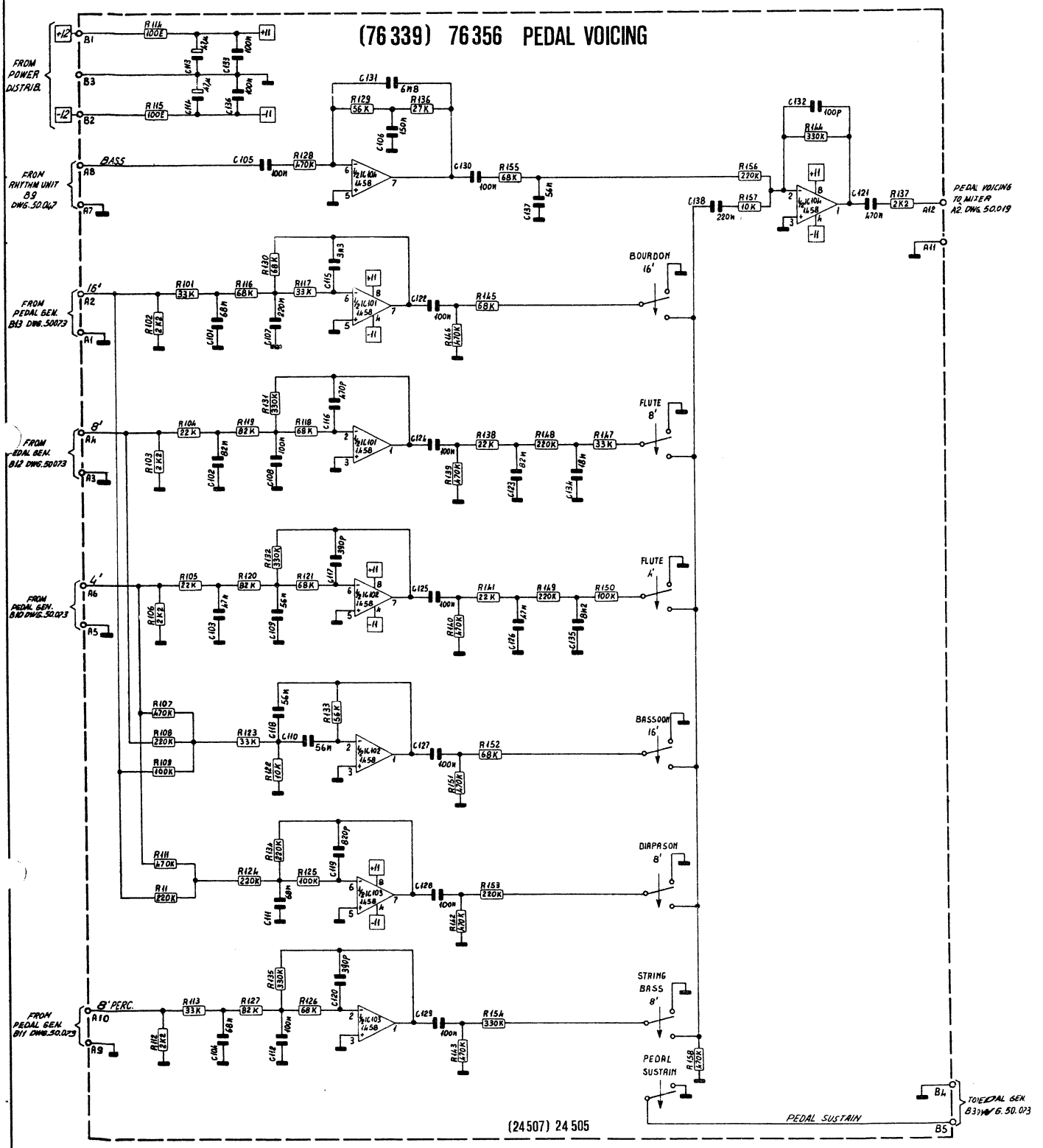
NOTES: 1) ALL RESISTORS ¼ W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WIHT RESPECT TO GND
4) IC 101 : CUSTOM DEVICE
5) J1 = JUMPER 1 PRESETS PERFORMER 2 MASTER OCT.
6) J2 = JUMPER 2 PRESETS BIG BAND MASTER OCT.
7) C_x THRU B_x ; SUBSCRIPT REFER TO CORRECT OCTAVE LOCATION
PERFORMER 2 X=6 (J1 SEL.)
BIG BAND X=2 (J2 SEL.)

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	10-12-80	Wouma	
CKD	11/12/80	Gatbol	
APPRVD			

DDR MOID IN (FO)

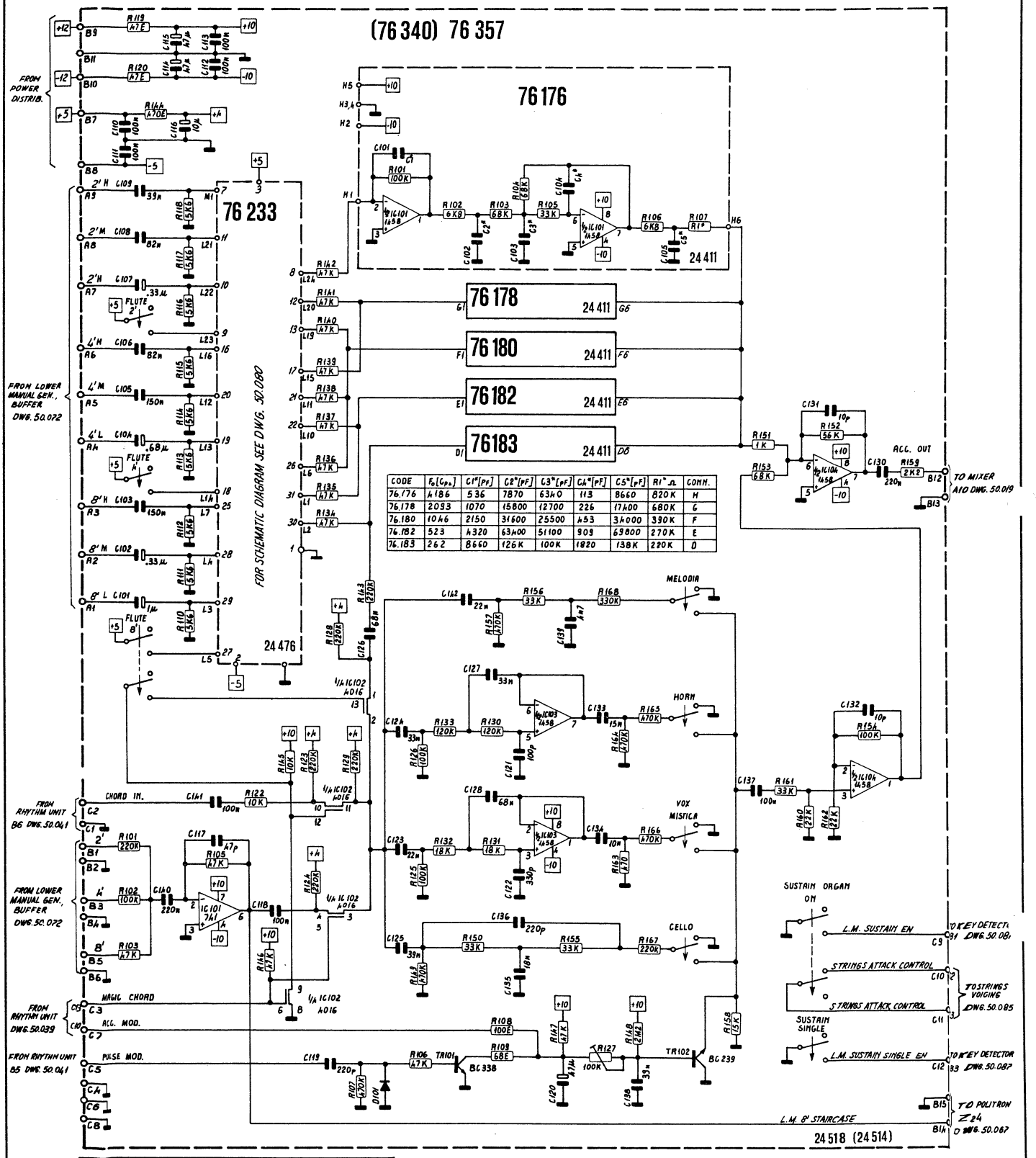
Nº. 50.073	SCHEMATIC DIAGRAM:
REPLACED BY	PEDAL GENERATOR
REPLACING	

(76 339) 76356 PEDAL VOICING



NOTES: 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND
3) QUOTED ( ) REFERED TO H7000 MODEL ASSY

REV.	SUBJECT		DRE	CKD
ISSUED	DATE	BY	USED ON:	DDR MONDAINO (FO)
DRAWN	9-12-80	Warner		
CKD				
APPRVD	11/12/80			
N°: 50 074			SCHEMATIC DIAGRAM: PEDAL VOICING	
REPLACED BY				
REPLACING				

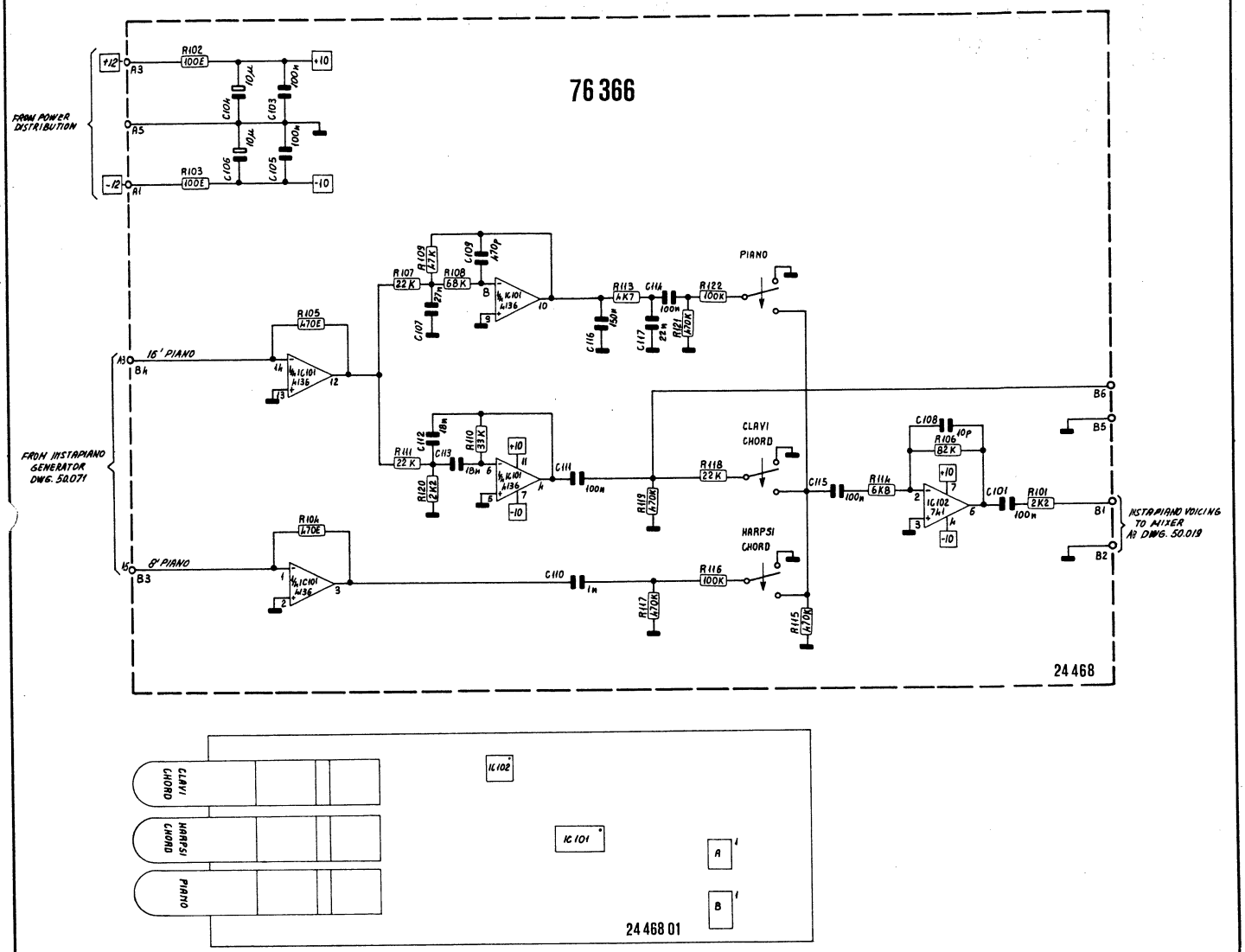


CODE	F_0 [Cps]	$C1^*$ [pF]	$C2^*$ [pF]	$C3^*$ [pF]	$C4^*$ [pF]	$C5^*$ [pF]	$R1^*$ Ω	COMM.
76.176	4186	536	7870	6340	113	8660	820K	H
76.178	2093	1070	15800	12700	226	17400	680K	G
76.180	1046	2150	31600	25500	453	34000	390K	F
76.182	523	4320	63400	51100	909	69800	270K	E
76.183	262	8660	126K	100K	1820	138K	220K	D

NOTES: 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 939 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND
4) QUOTED ( ) REFERED TO H 7000 MODEL ASSY

REV.	SUBJECT		DATE	CKD
ISSUED	DATE	BY	USED ON:	
DRAWN	4-12-80	Ulanca		
CKD	15-12-80	Giorgi		
APPRVD	15/12/80			
N°. 50075			SCHEMATIC DIAGRAM: ACCOMPANIMENT VOICING	
REPLACED DY				
REPLACING				

MOOG MUSIC INO (FO)

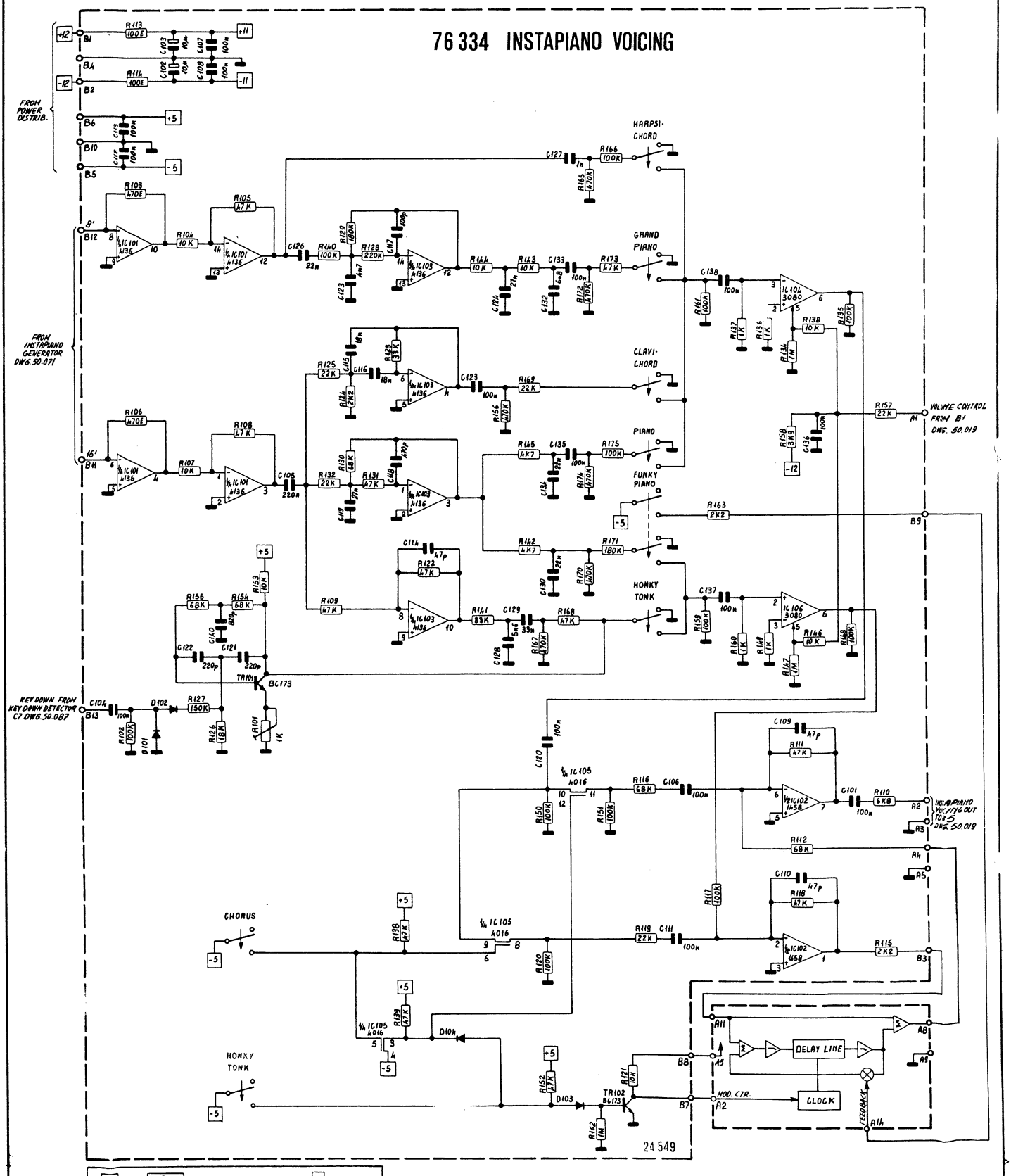


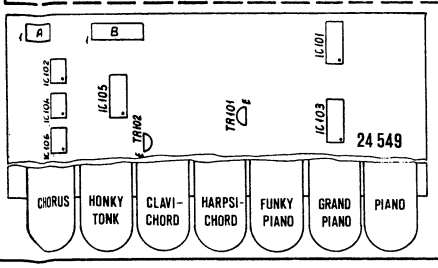
NOTES: 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	2-12-80	Mannucci	
CKD	15-12-80	Giorgi	
APPRVD	15/12/80	Bottelli	
N°. 50076			SCHEMATIC DIAGRAM = INSTAPIANO VOICING
REPLACED BY			
REPLACING			

DDR RONDAINO (FO)

76 334 INSTAPIANO VOICING





NOTES: 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 939 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	11-12-80		
CKD	15-12-80		
APPRVD	15/12/80		

DDR MONDI NO (FO)

N°: 50 077

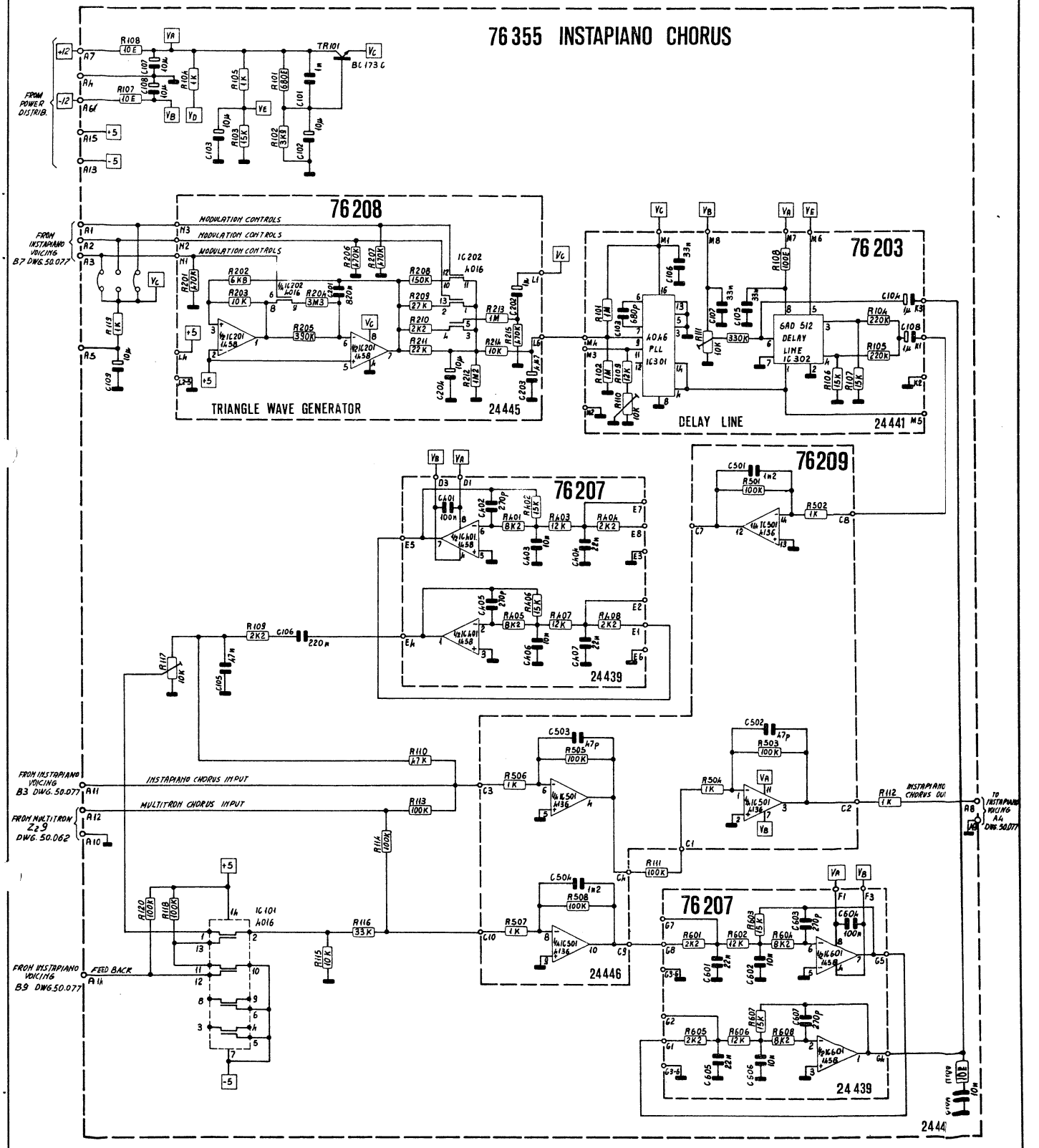
REPLACED BY

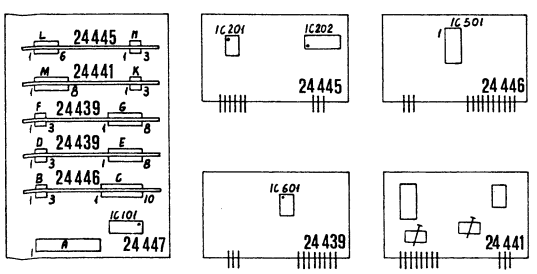
REPLACING

SCHEMATIC DIAGRAM:

INSTAPIANO VOICING

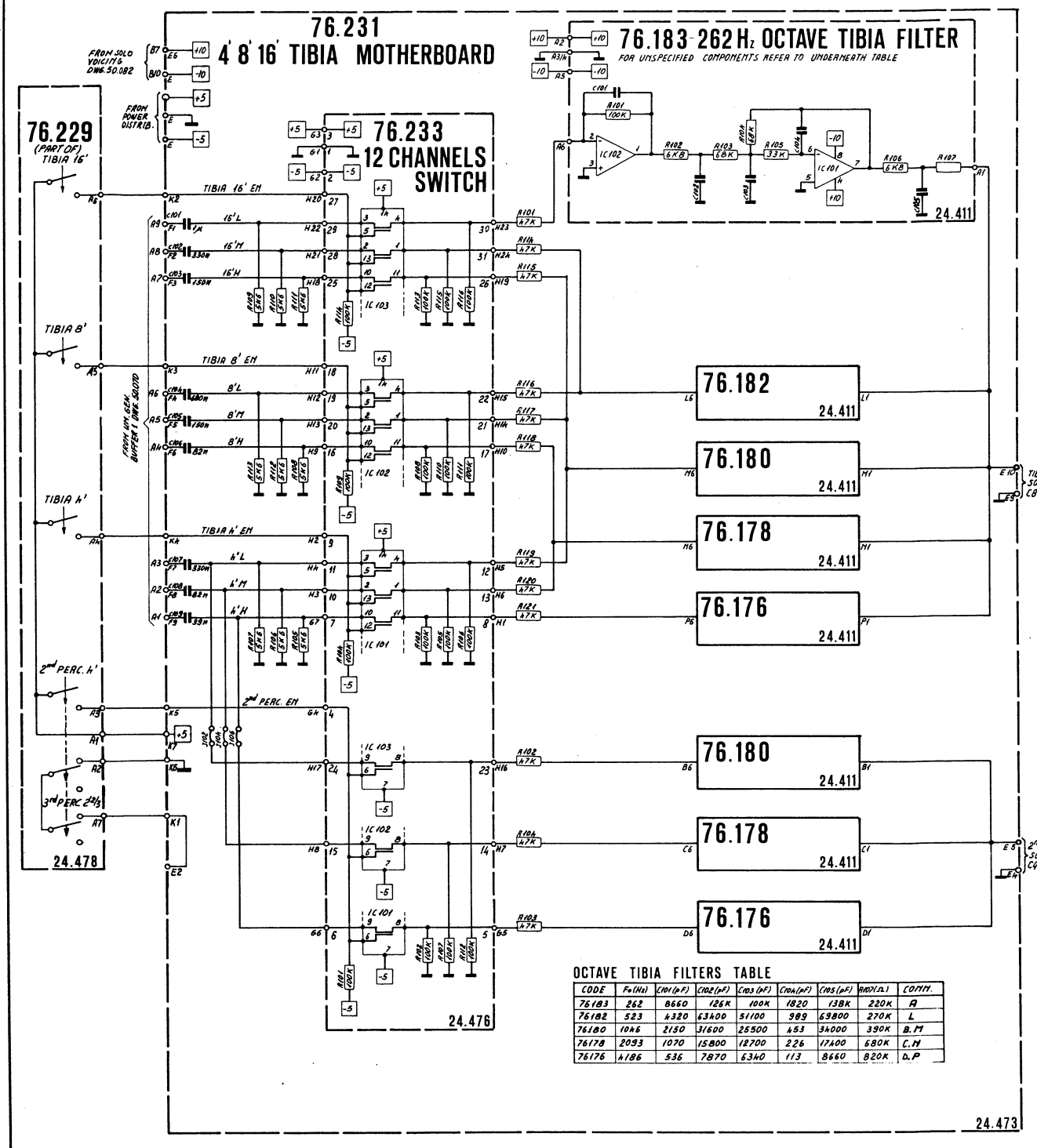
76355 INSTAPIANO CHORUS





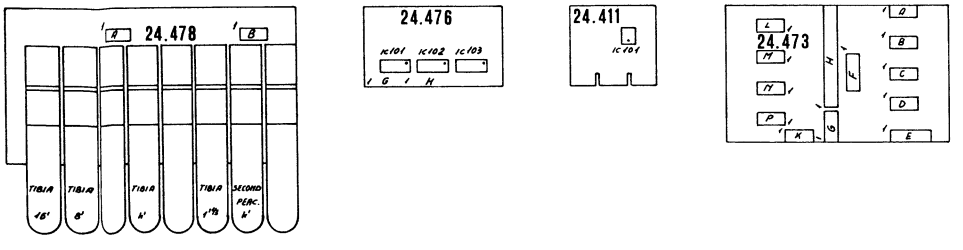
NOTES: 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND

REV.	SUBJECT		DIT	CKD
ISSUED	DATE	BY	USED ON:	DDR MUSIC DAINO (FO)
DRAWN	4-12-80			
CKD	15-12-80			
APPRVD	15/12/80			
N°. 50078			SCHEMATIC DIAGRAM: INSTAPIANO CHORUS	
REPLACED DY				
REPLACING				



OCTAVE TIBIA FILTERS TABLE

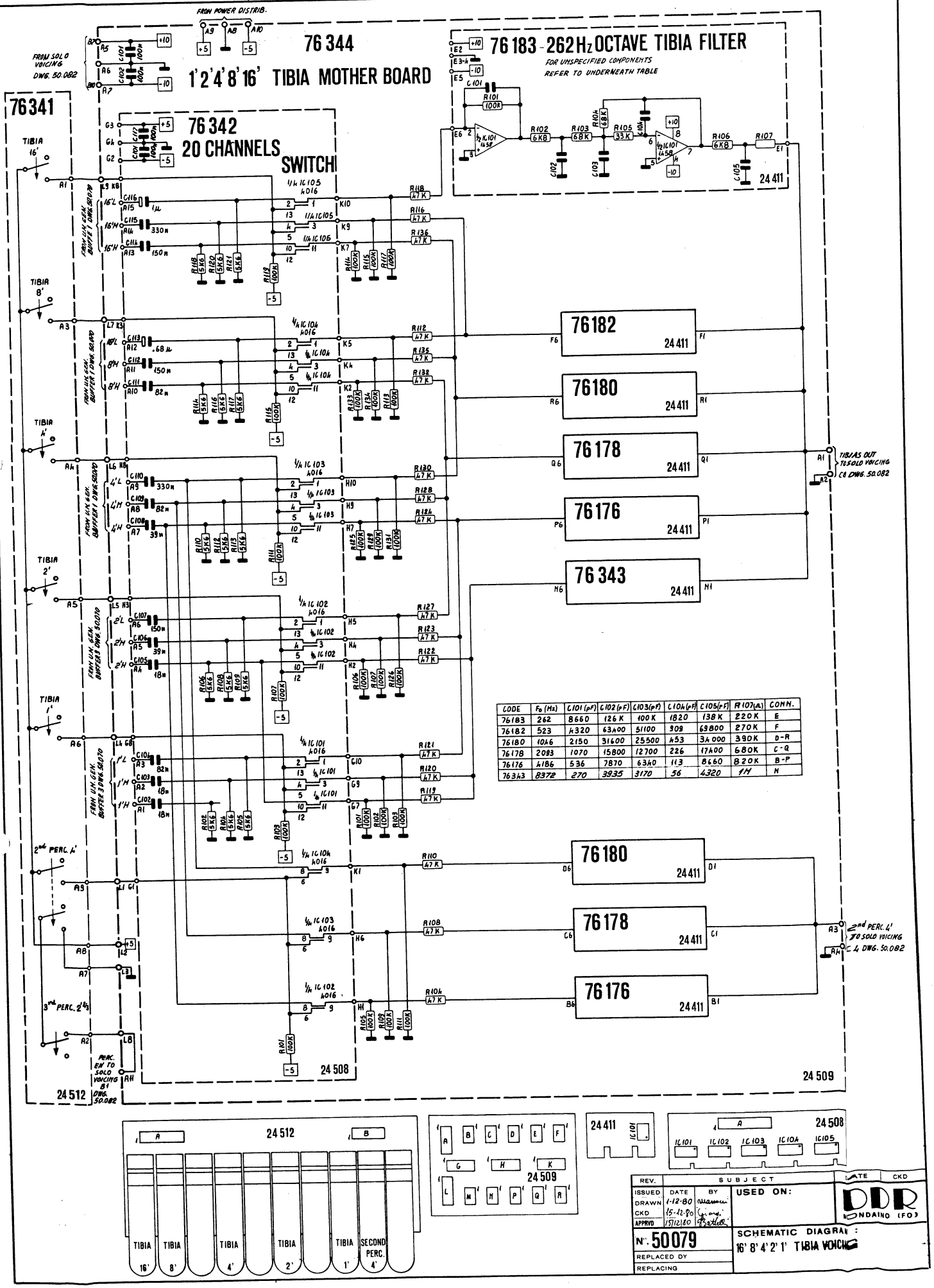
CODE	Fo (Hz)	C101 (pF)	C102 (pF)	C103 (pF)	C104 (pF)	C105 (pF)	RADJ (Ω)	COMM.
76183	262	8660	126K	100K	1820	138K	220K	A
76182	523	4320	63400	51100	989	69800	270K	L
76180	1046	2150	31600	25500	453	34000	390K	B.M
76178	2093	1070	15800	12700	226	17400	680K	C.M
76176	4186	536	7870	6340	113	8660	820K	D.P



NOTES: 1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	10-12-80	Guarnieri	
CKD	15-12-80	Giorgi	
APPRVD	12/12/80	Barbieri	
N°. 50 080			SCHEMATIC DIAGRAM: 4', 8', 16', TIBIA VOICING
REPLACED BY			
REPLACING			

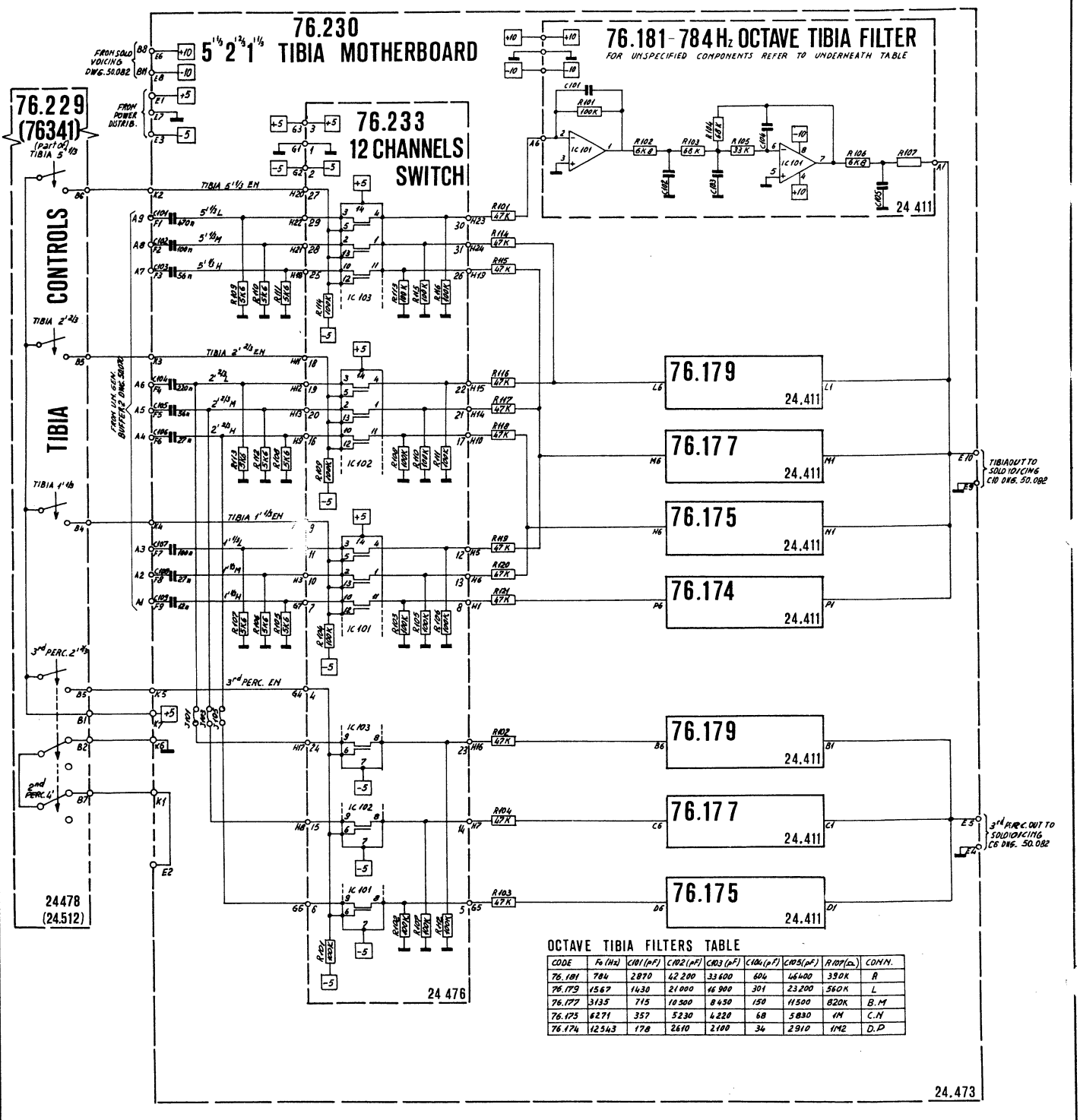
DDR MOD AINO (FO)



CODE	Fo (Hz)	C101 (pF)	C102 (pF)	C103 (pF)	C104 (pF)	C105 (pF)	R107 (Ω)	CONN.
76183	262	8660	126 K	100 K	1820	138 K	220 K	E
76182	523	4320	63400	51100	909	69800	270 K	F
76180	1046	2150	31600	25500	453	34 000	390 K	D-R
76178	2093	1070	15800	12700	226	17400	680 K	C-Q
76176	4186	536	7870	6340	113	8660	820 K	B-P
76343	8372	270	3935	3170	56	4320	1M	N

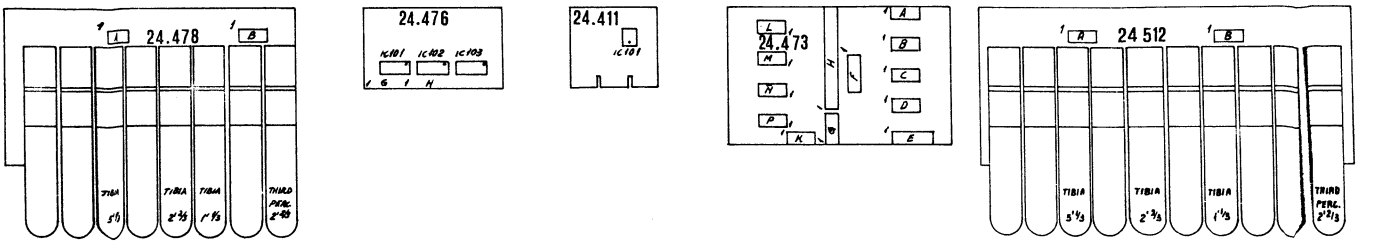
REV.	SUBJECT			DATE	CKD
ISSUED	DATE	BY	USED ON:		
DRAWN	1-12-80				
CKD	15-12-80				
APPRVD	15/12/80				
N°: 50079			SCHEMATIC DIAGRAM : 16' 8' 4' 2' 1' TIBIA VOICING		
REPLACED DY					
REPLACING					

DDR MONDAINO (FO)



OCTAVE TIBIA FILTERS TABLE

CODE	Fo (Hz)	C101 (pF)	C102 (pF)	C103 (pF)	C104 (pF)	C105 (pF)	R107 (Ω)	CONN.
76.181	784	2870	42 200	33 600	604	46400	390K	A
76.179	1567	1430	21 000	16 900	301	23200	560K	L
76.177	3135	715	10 300	8450	150	11500	820K	B.M
76.175	6271	357	5230	4220	68	5830	1M	C.N
76.174	12543	178	2610	2100	34	2910	1M2	D.P

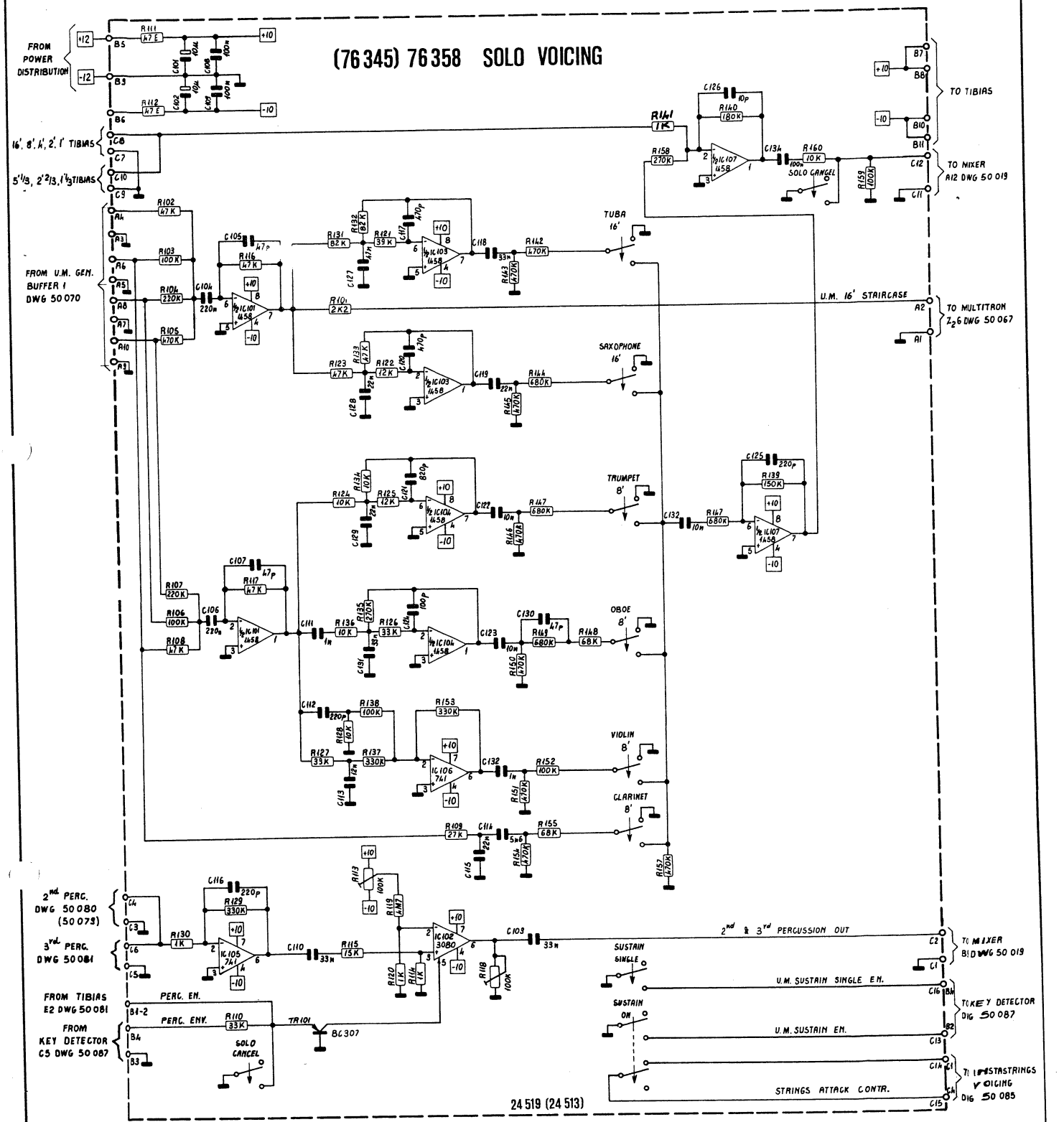


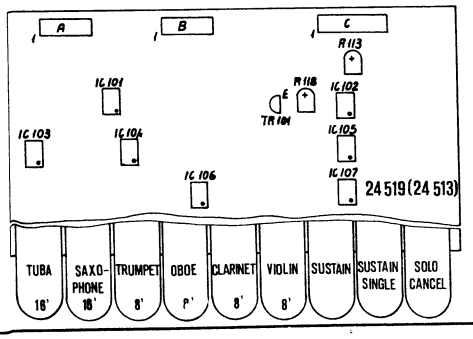
NOTES: 1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND
3) QUOTED ( ) REFERED TO H7000 MODEL ASSY

REV.	SUBJECT		DATE	CKD
ISSUED	DATE	BY	USED ON:	
DRAWN	5-12-80			
CKD	15-12-80			
APPRVD	15/12/80			
Nº. 50 081			SCHEMATIC DIAGRAM: 5', 2⅔', 1', 1⅓' TIBIA VOICING	
REPLACED BY				
REPLACING				

DDR MONIA SNO (FO)

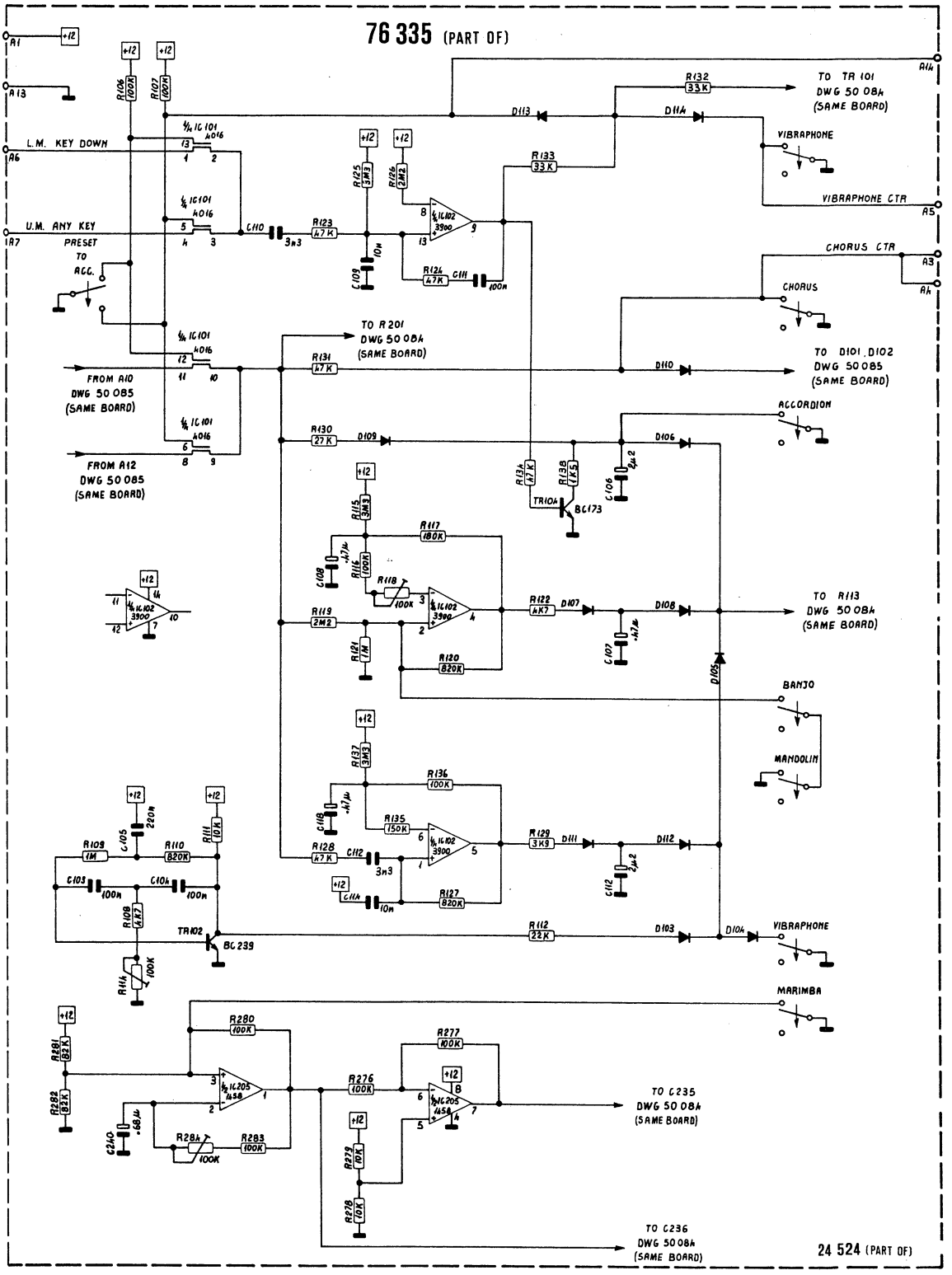
(76345) 76358 SOLO VOICING

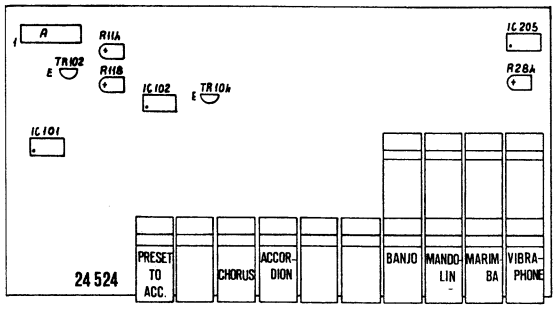




NOTES : 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND
3) QUOTED ( ) REFERED TO H7000 MODEL ASSY

REV.	SUBJECT		DTE	CKD
ISSUED	DATE	BY	USED ON:	DDR MINDAINO (FO)
DRAWN	9-12-80			
CKD	15-12-80			
APPRVD	15/12/80			
N°. 50 082			SCHEMATIC DIAGRAM SOLO VOICING	
REPLACED BY				
REPLACING				


76 335 (PART OF)
FROM POWER DISTRIBUTION
FROM KEY DETECTOR C9 DWG 50 087
L.M. KEY DOWN
FROM KEY DETECTOR C8 DWG 50 087
U.M. ANY KEY
PRESET TO ACC.
FROM A10 DWG 50 085 (SAME BOARD)
FROM A12 DWG 50 085 (SAME BOARD)
TO TR 101 DWG 50 084 (SAME BOARD)
VIBRAPHONE
VIBRAPHONE CTR
CHORUS CTR
CHORUS
ACCORDION
TO R 201 DWG 50 084 (SAME BOARD)
TO D101 D102 DWG 50 085 (SAME BOARD)
TO R113 DWG 50 084 (SAME BOARD)
BANJO
MANDOLIN
VIBRAPHONE
MARIMBA
TO C235 DWG 50 084 (SAME BOARD)
TO C236 DWG 50 084 (SAME BOARD)
24 524 (PART OF)

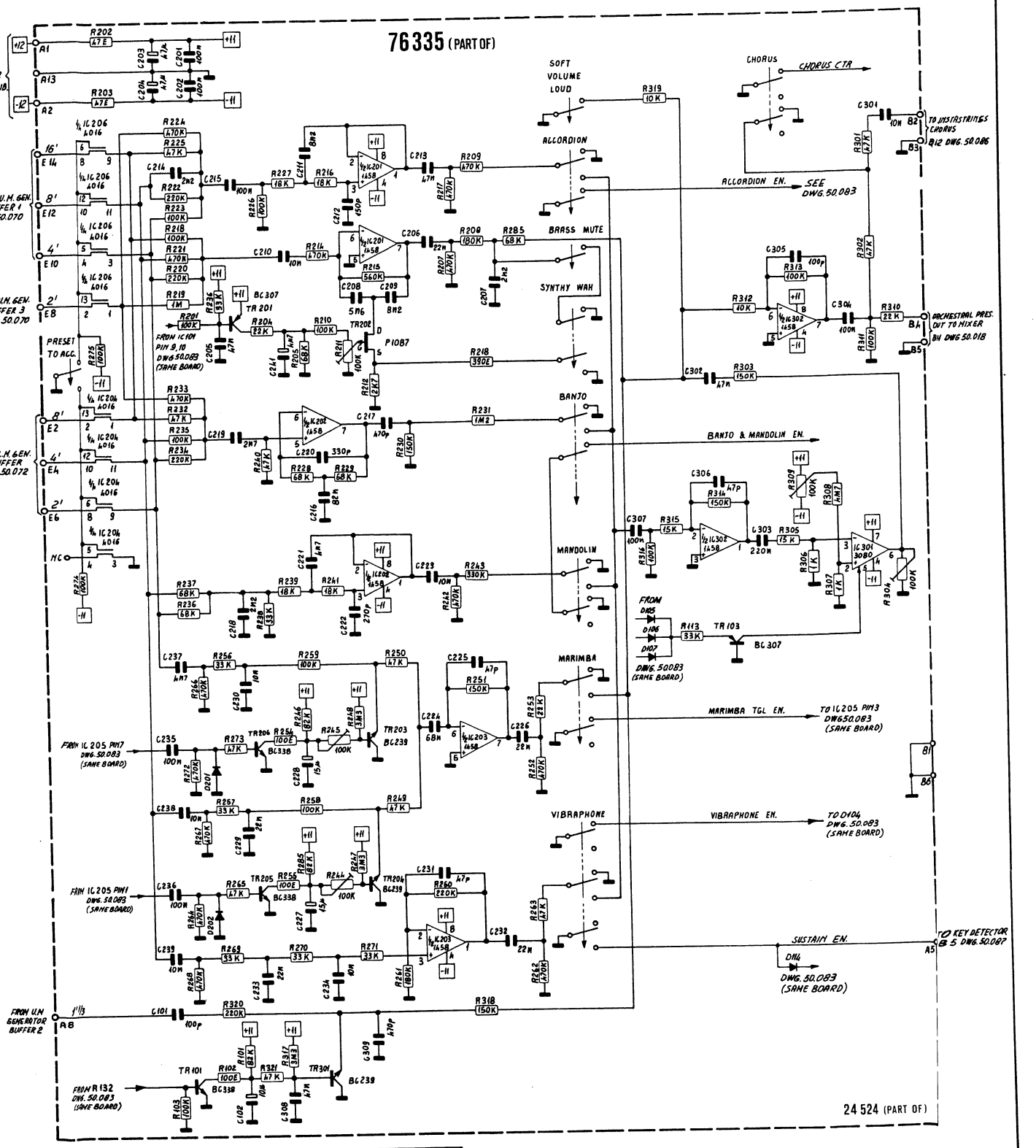


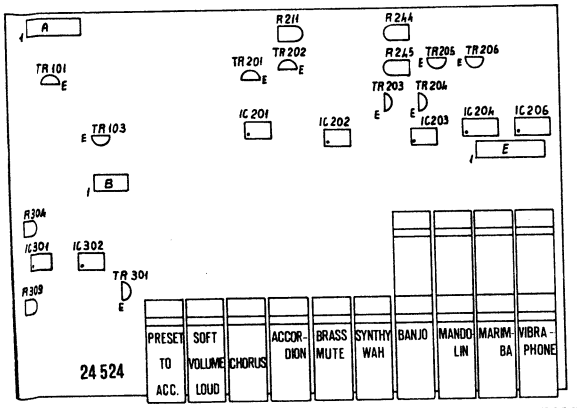
NOTES: 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND
4) IC 101 SUPPLIES : PIN 7 PIN 14 +12

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	1-12-80	Marmi	
CKD	15-12-80	Giorgi	
APPRVD	15/12/80	Bartelli	

DDR MONTEVINO (FO)

N°. 50 083	SCHEMATIC DIAGRAM: ORCHESTRAL PRESETS & LSE SHAPER
REPLACED DY	
REPLACING	


76335 (PART OF)
FROM POWER DISTRIB.
SOFT VOLUME LOUD
CHORUS
CHORUS CTR
ACCORDION
ACCORDION EN.
SEE DWG. 50.083
BRASS MUTE
SYNTHY WAH
BANJO
BANJO & MANDOLIN EN.
MANDOLIN
MARIMBA
MARIMBA TGL EN.
VIBRAPHONE
VIBRAPHONE EN.
SUSTAIN EN.
TO KEY DETECTOR
PRESET TO ACC.
FROM U.M. GEN. BUFFER 1 DWG. 50.070
FROM U.M. GEN. BUFFER 3 DWG. 50.070
FROM L.M. GEN. BUFFER DWG. 50.072
FROM U.N GENERATOR BUFFER 2
FROM IC101 PIN 9,10 DWG 50.083 (SAME BOARD)
FROM IC 205 PIN7 DWG. 50.083 (SAME BOARD)
FROM IC 205 PIN1 DWG. 50.083 (SAME BOARD)
FROM R132 DWG. 50.083 (SAME BOARD)
FROM D105 D106 D107 DWG. 50.083 (SAME BOARD)
TO 1/15 STRINGS CHORUS B12 DWG. 50.086
ORCHESTRAL PRES. OUT TO MIXER B11 DWG 50.018
TO IC205 PIN3 DWG50.083 (SAME BOARD)
TO D104 DWG. 50.083 (SAME BOARD)
TO KEY DETECTOR B 5 DWG. 50.087
D114 DWG. 50.083 (SAME BOARD)
24 524 (PART OF)



NOTES : 1) ALL RESISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GN
4) IC° 204, 206 SUPPLIES : PIN 7 ⊥ PIN 14 +12

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	3-12-80	Warnier	
CKD	15-12-80	Giovi	
APPRVD	16/12/80	Mattei	

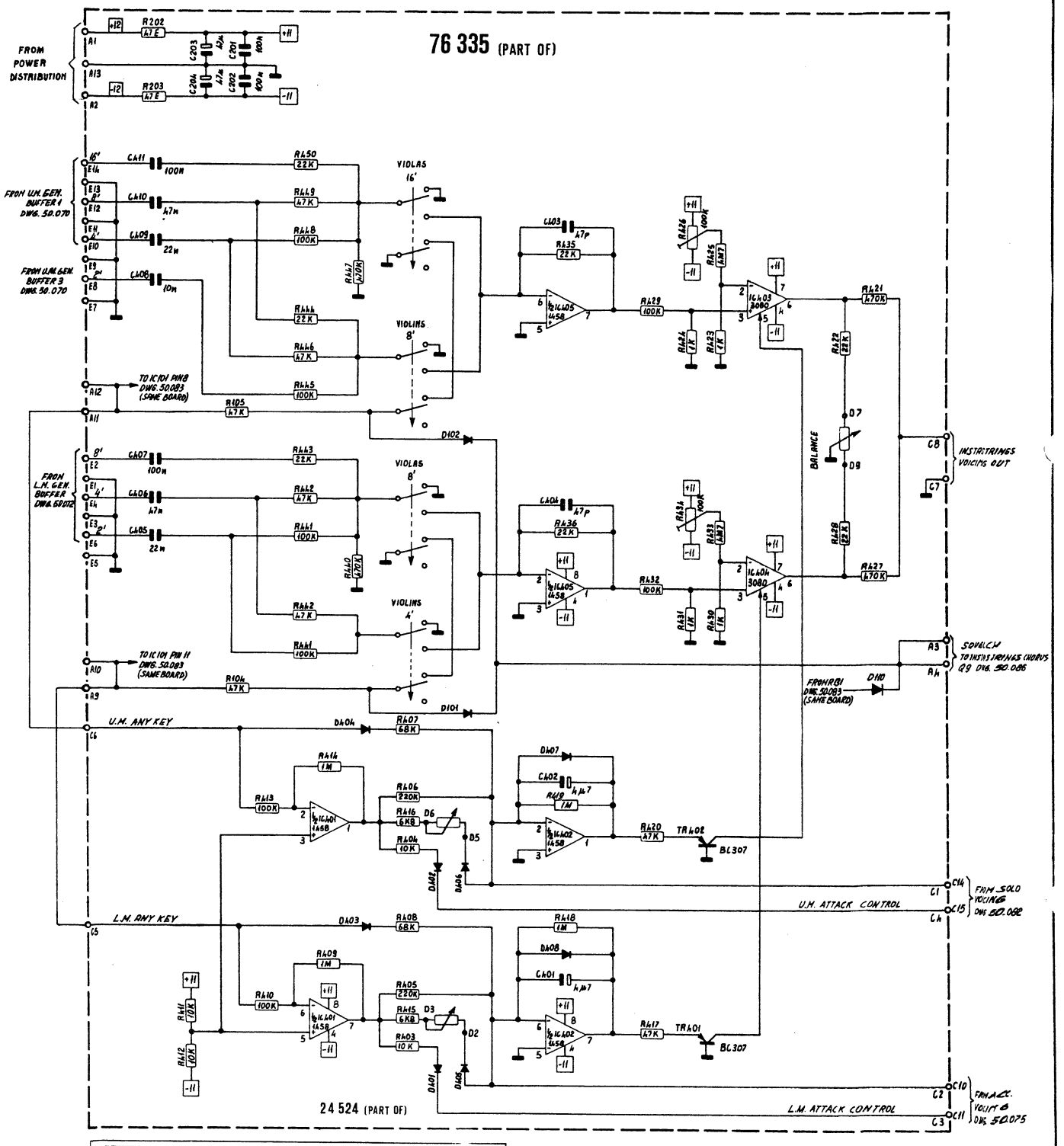
DDR MUSICAL DAINO (FO)

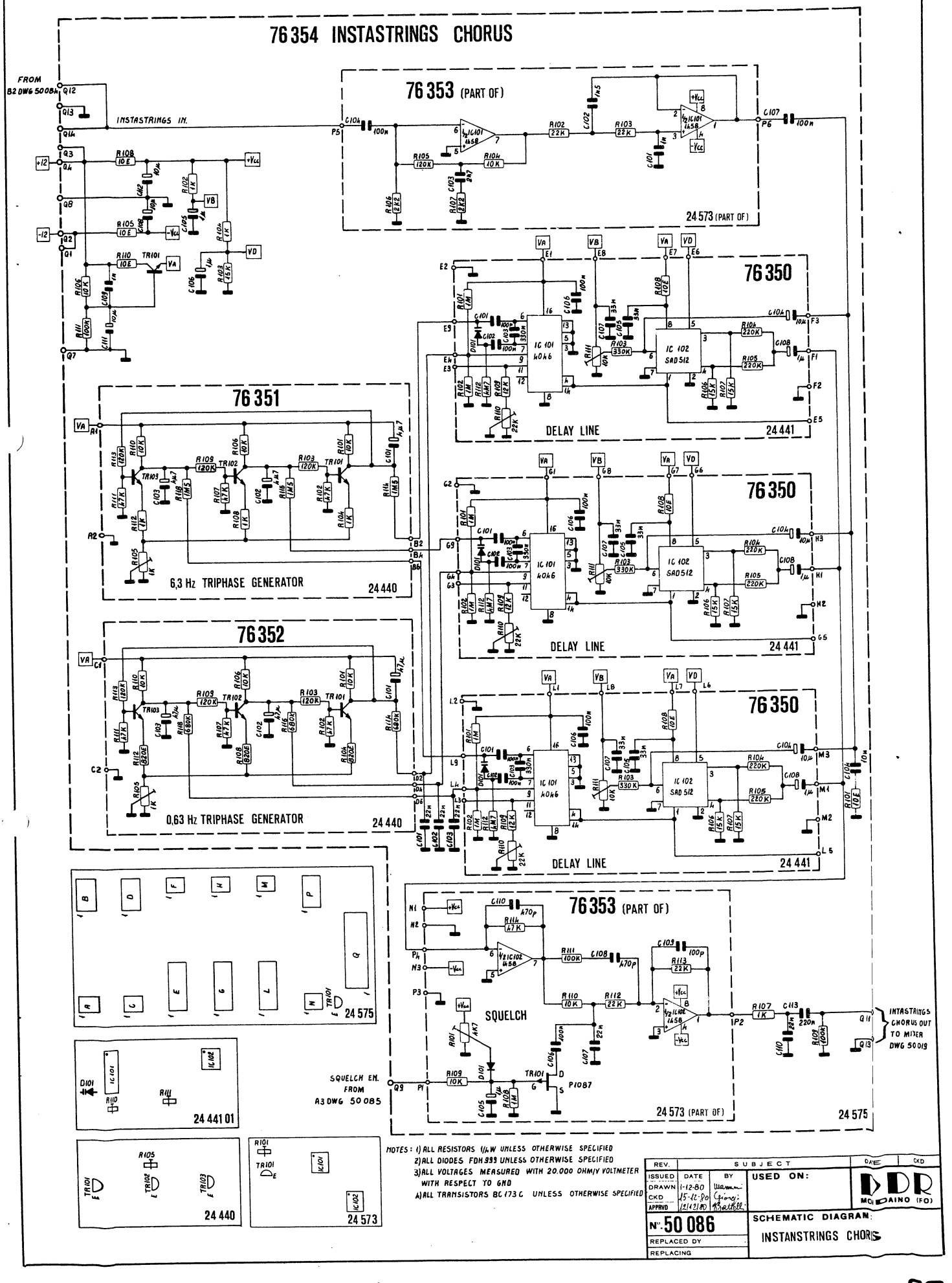
N°. 50 084

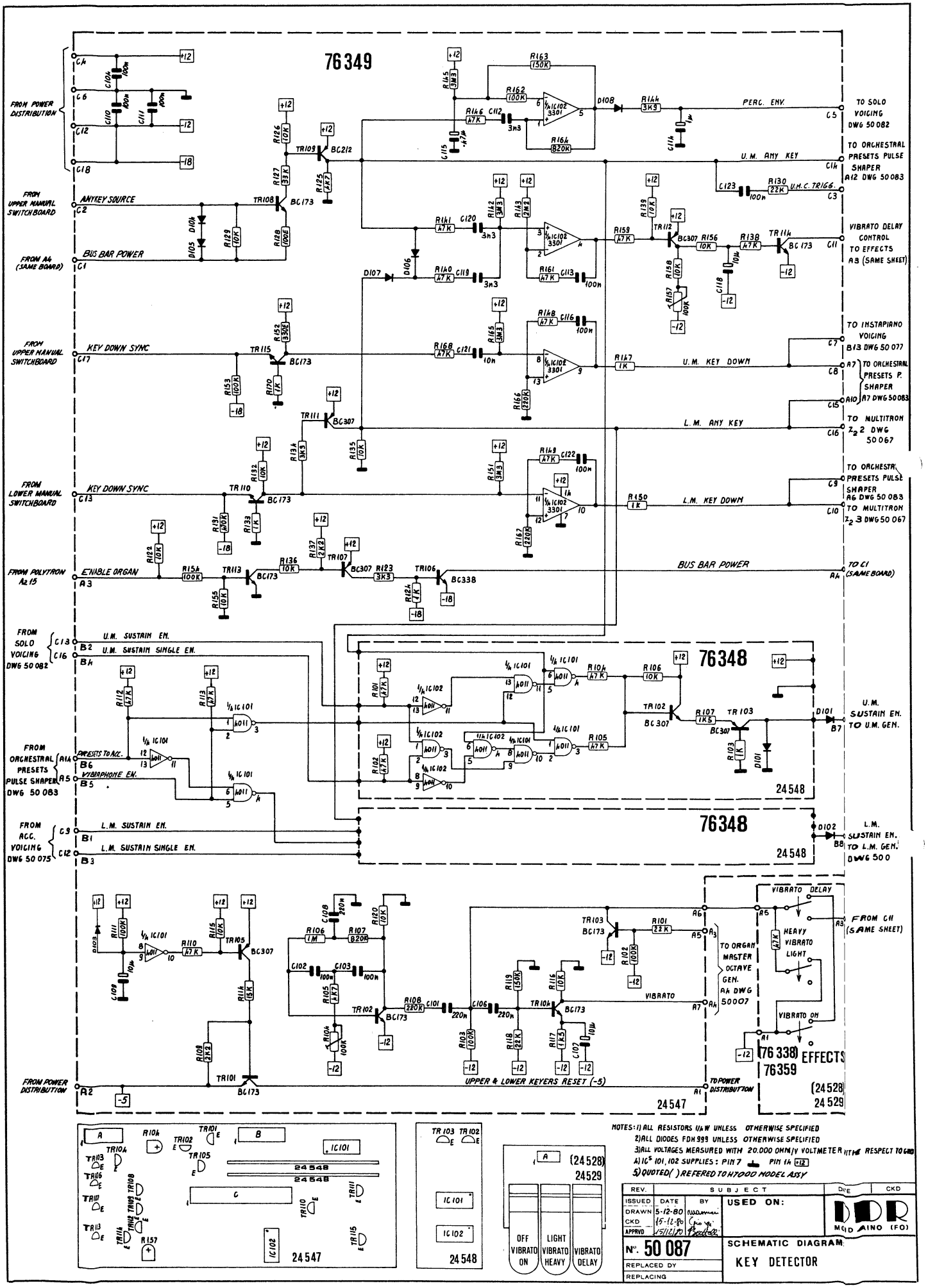
REPLACED BY

REPLACING

SCHEMATIC DIAGRAM: ORCHESTRAL PRESETS VOICING


76 335 (PART OF)
FROM POWER DISTRIBUTION
+12
-12
+11
-11
R202 47 E
R203 47 E
C203 47µ
C204 47µ
C201 100n
C202 100n
FROM U.M. GEN. BUFFER 1 DWG. 50.070
FROM U.M. GEN. BUFFER 3 DWG. 50.070
16'
8'
4'
2'
C411 100n
C410 47n
C409 22n
C408 10n
R450 22K
R449 47K
R448 100K
R447 470K
R444 22K
R446 47K
R445 100K
R405 47K
VIOLAS 16'
VIOLINS 8'
TO IC101 PIN 8 DWG. 50.083 (SAME BOARD)
C403 47P
R435 22K
R429 100K
R426 100K
R425 4M7
R424 1K
R423 1K
R421 470K
R422 22K
R428 22K
R427 470K
BALANCE
D7
D9
C8
C7
INSTASTRINGS VOICING OUT
FROM L.M. GEN. BUFFER DWG. 50.072
C407 100n
C406 47n
C405 22n
R443 22K
R442 47K
R441 100K
R440 470K
R442 47K
R441 100K
VIOLAS 8'
VIOLINS 4'
C404 47P
R436 22K
R432 100K
R434 100K
R433 4M7
R431 1K
R430 1K
R427 470K
TO IC101 PIN 11 DWG. 50.083 (SAME BOARD)
R404 47K
D102
D101
A3
A4
SOUELCH TO INSTASTRINGS CHORUS Q9 DWG. 50.086
FROM PB1 DWG. 50.083 (SAME BOARD)
D110
U.M. ANY KEY
D104
R407 68K
R414 1M
R413 100K
R406 220K
R416 6K8
R404 10K
D6
D5
D407
C402 4µ7
R419 1M
R420 47K
TR402 BC307
D402
D406
C14
C1
C15
C4
FROM SOLO VOICING DWG. 50.092
U.M. ATTACK CONTROL
L.M. ANY KEY
D403
R408 68K
R409 1M
R410 100K
R405 220K
R415 6K8
R403 10K
D3
D2
R411 10K
R412 10K
D408
C401 4µ7
R418 1M
R417 47K
TR401 BC307
D401
D405
C10
C2
C11
C3
FROM ACC. VOICE & DWG. 50.075
L.M. ATTACK CONTROL
24 524 (PART OF)
NOTES: 1) ALL RESISTORS 1/8 W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 333 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20,000 OHM/V VOLTMETER WITH RESPECT TO GND
TR401
TR402
IC401
IC402
IC403
IC404
IC405
R426
R434
ACC. VIOLAS 8'
ACC. VIOLINS 4'
SOLO VIOLAS 16'
SOLO VIOLINS 8'
24 524
24572
REV.
SUBJECT
DATE
CKD
ISSUED
DRAWN 12-12-80
CKD 15-12-80
APPRVD 15/12/80
USED ON:
DDR MONZA (MI)
Nr. 50 085
SCHEMATIC DIAGRAM:
INSTASTRINGS VOICING
REPLACED BY
REPLACING


76 354 INSTASTRINGS CHORUS
FROM B2 DWG 50084
INSTASTRINGS IN.
76 353 (PART OF)
24 573 (PART OF)
76 350
DELAY LINE
24 441
76 351
6,3 Hz TRIPHASE GENERATOR
24 440
76 352
0,63 Hz TRIPHASE GENERATOR
24 440
SQUELCH
SQUELCH EN. FROM A3 DWG 50 085
INSTASTRINGS CHORUS OUT TO MIXER DWG 50 019
24 575
24 441 01
24 440
24 573
NOTES : 1) ALL RESISTORS 1/4W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 333 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND
4) ALL TRANSISTORS BC 173 C UNLESS OTHERWISE SPECIFIED
REV.
SUBJECT
DATE
CKD
ISSUED
DRAWN 1-12-80
CKD 15-12-80
APPRVD
USED ON:
MOOG DAINO (FO)
N°. 50 086
REPLACED BY
REPLACING
SCHEMATIC DIAGRAM:
INSTANSTRINGS CHORUS



NOTES: 1) ALL RESISTORS 1/4W UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND
4) IC's 101, 102 SUPPLIES: PIN 7 ⏚ PIN 14 +12
5) QUOTED( ) REFERED TO H7000 MODEL ASSY

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	
DRAWN	5-12-80		
CKD	15-12-80		
APPRVD	15/12/80		

USED ON:

DDR MOD AINO (FO)

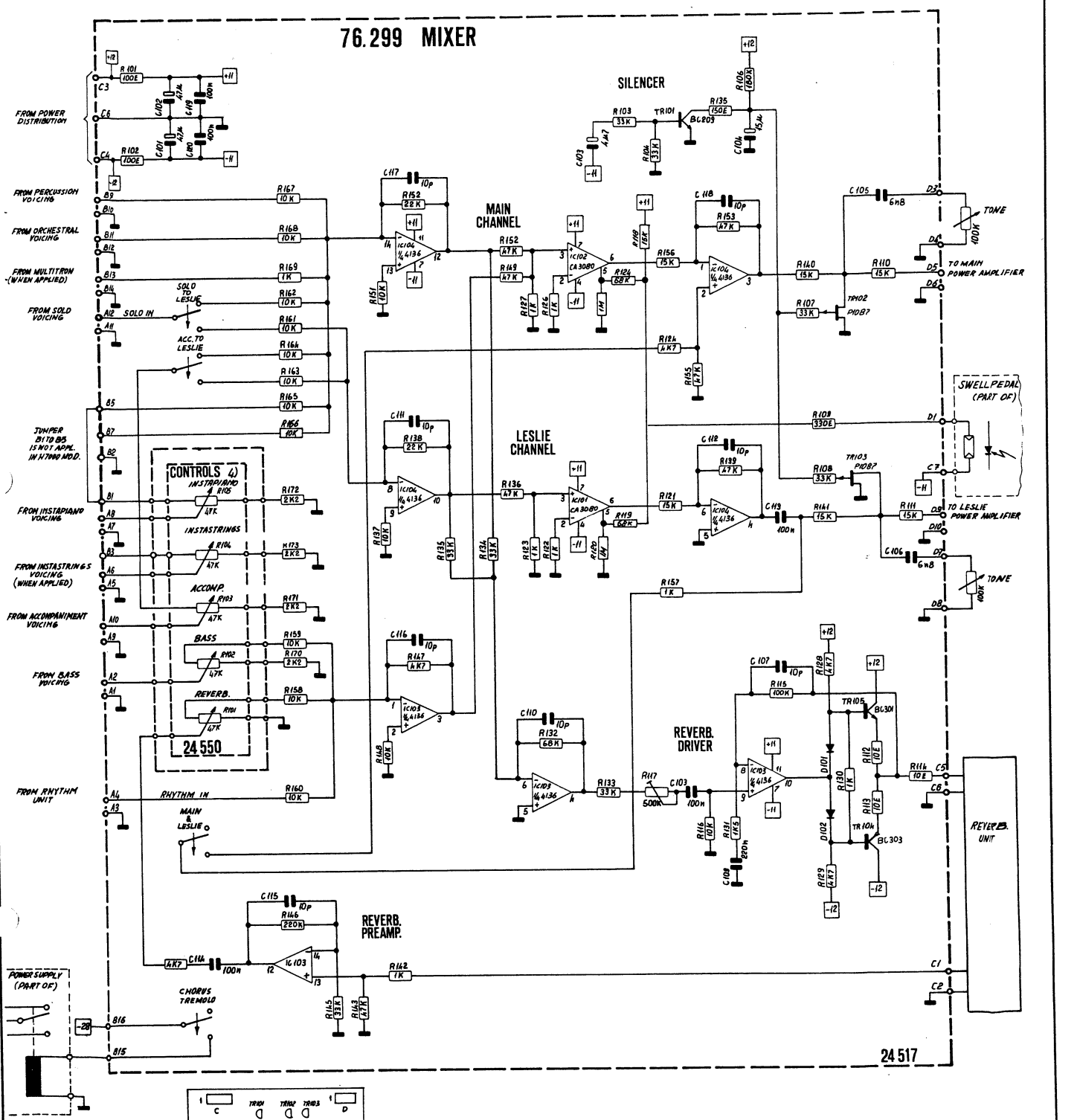
Nº. 50 087

REPLACED DY

REPLACING

SCHEMATIC DIAGRAM

KEY DETECTOR



NOTES: 1) ALL REBISTORS 1/4 W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITH RESPECT TO GND
3) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
4) CONTROLS CODED: 76.333 WHEN INSTASTRINGS (5 CONTROLS)
76.295 OTHERWISE (4 CONTROLS)

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	19-5-80	
CKD	23-5-80	
APPRVD	15/12/80	

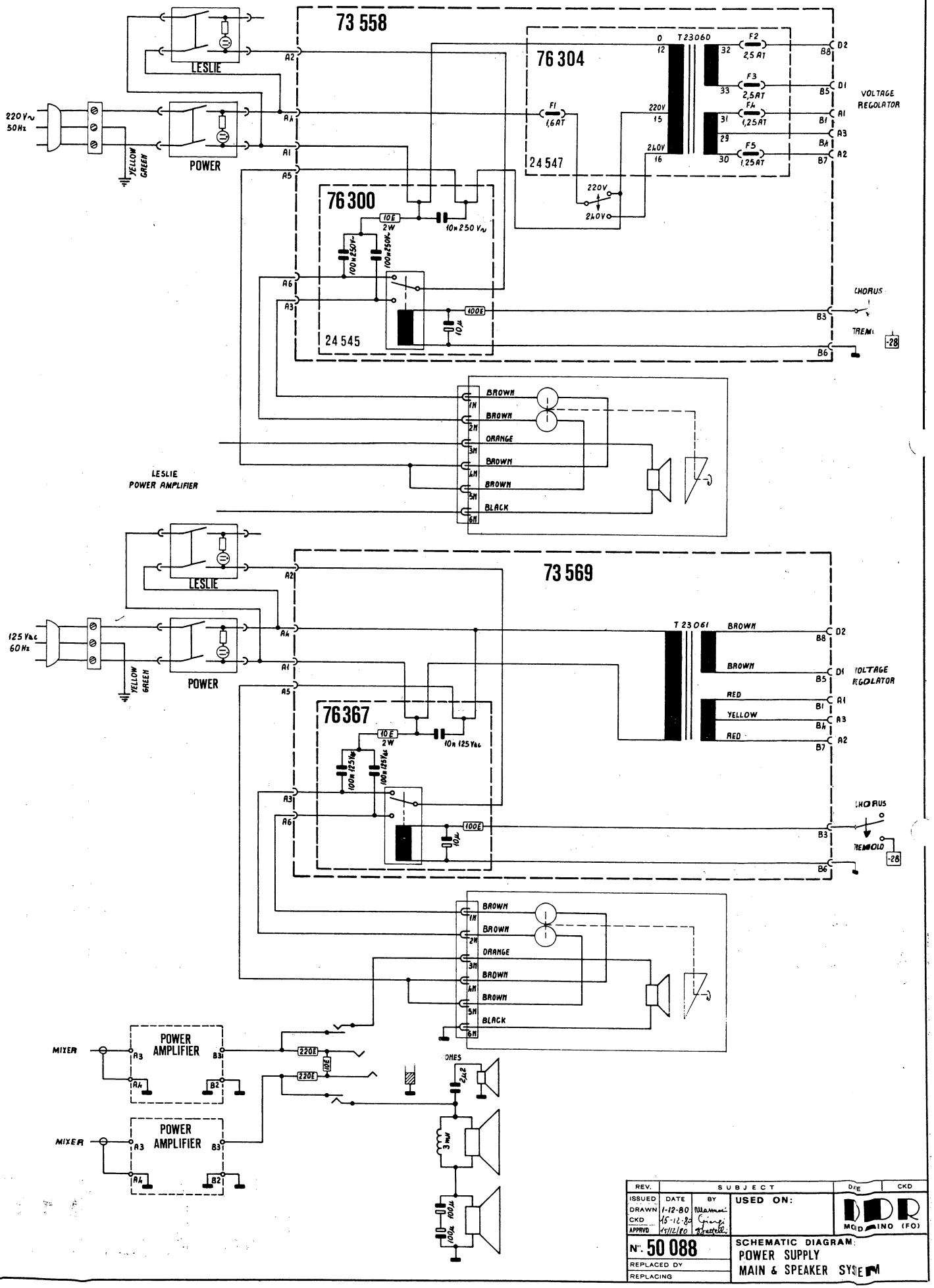
MONTINO (FO)

Nº. 50019

REPLACED BY

REPLACING

SCHEMATIC DIAGRAM: MIXER, REVERB. & CONTROLS



REV.	SUBJECT	DATE	CKD
ISSUED			
DRAWN	1-12-80	Marmai	
CKD	15-12-80	Giorgi	
APPRVD	15/12/80	Bertelli	

USED ON:

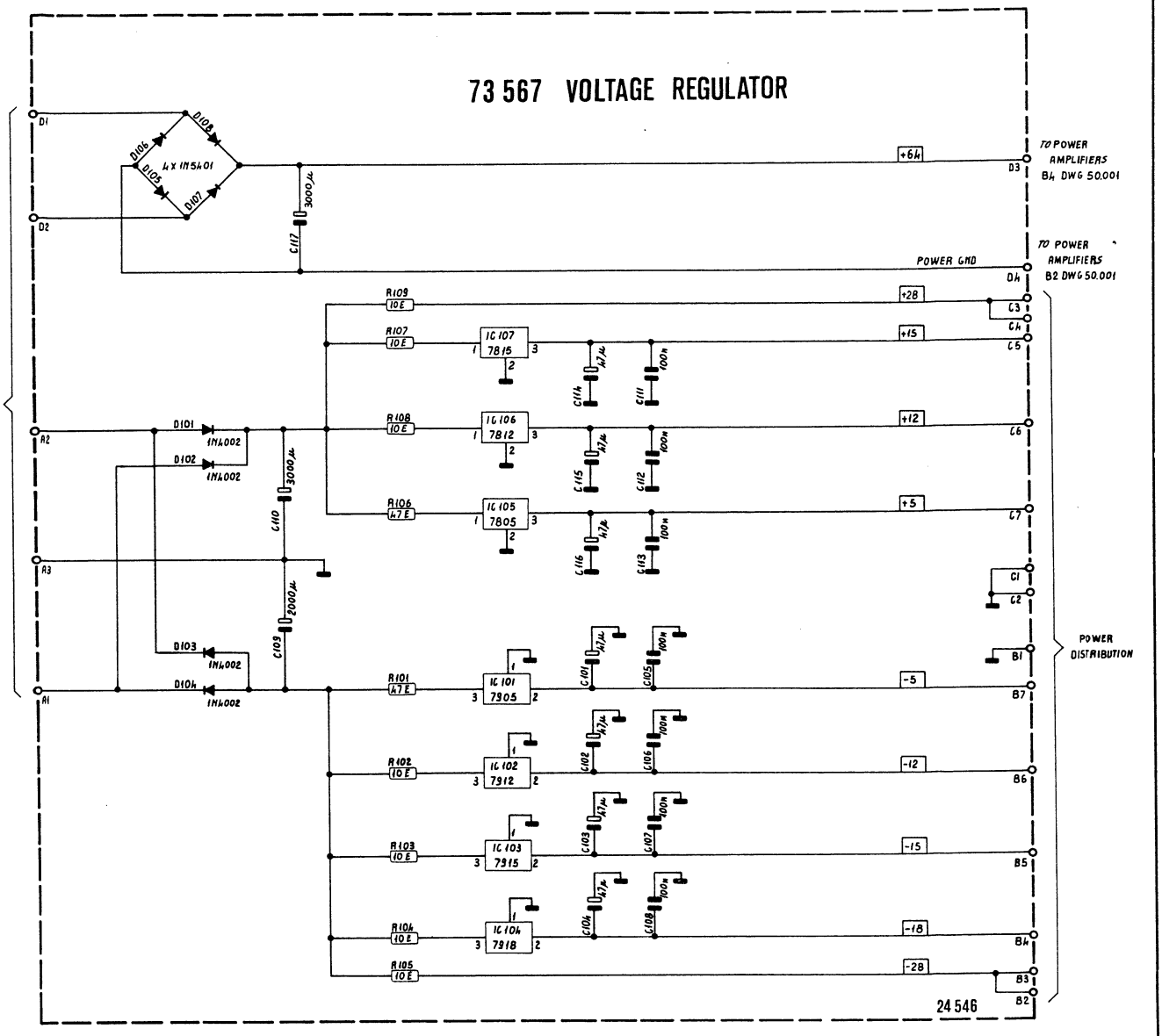
MOD MINO (FO)

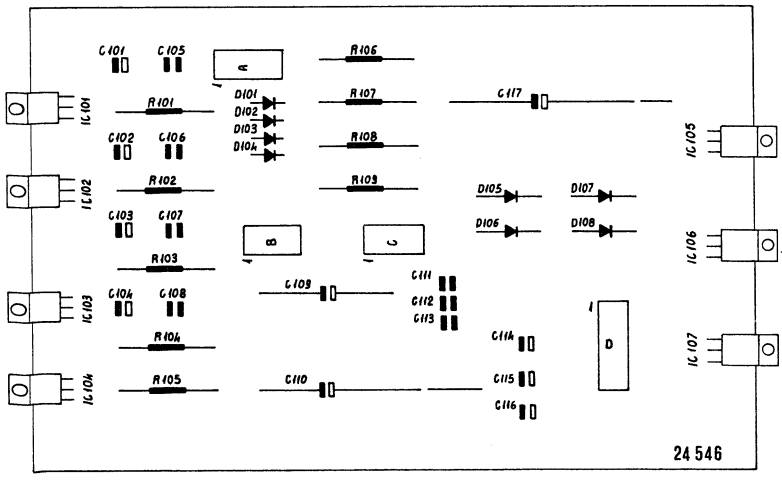
N°: 50 088

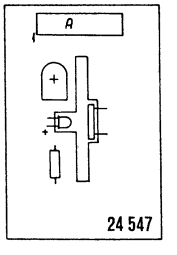
REPLACED BY

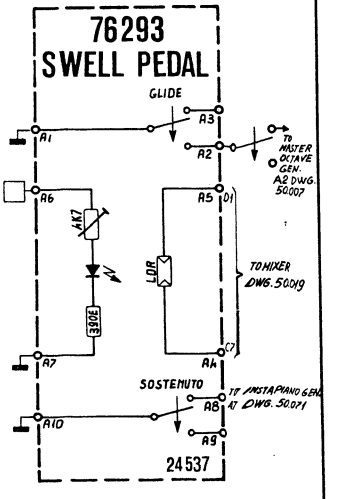
REPLACING

SCHEMATIC DIAGRAM:
POWER SUPPLY
MAIN & SPEAKER SYSTEM









NOTES: 1) ALL RESISTORS 5W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/v VOLTMETER WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	4-12-80		
CKD	15-12-80		
APPRVD	15/12/80		

MOND AINO (FO)

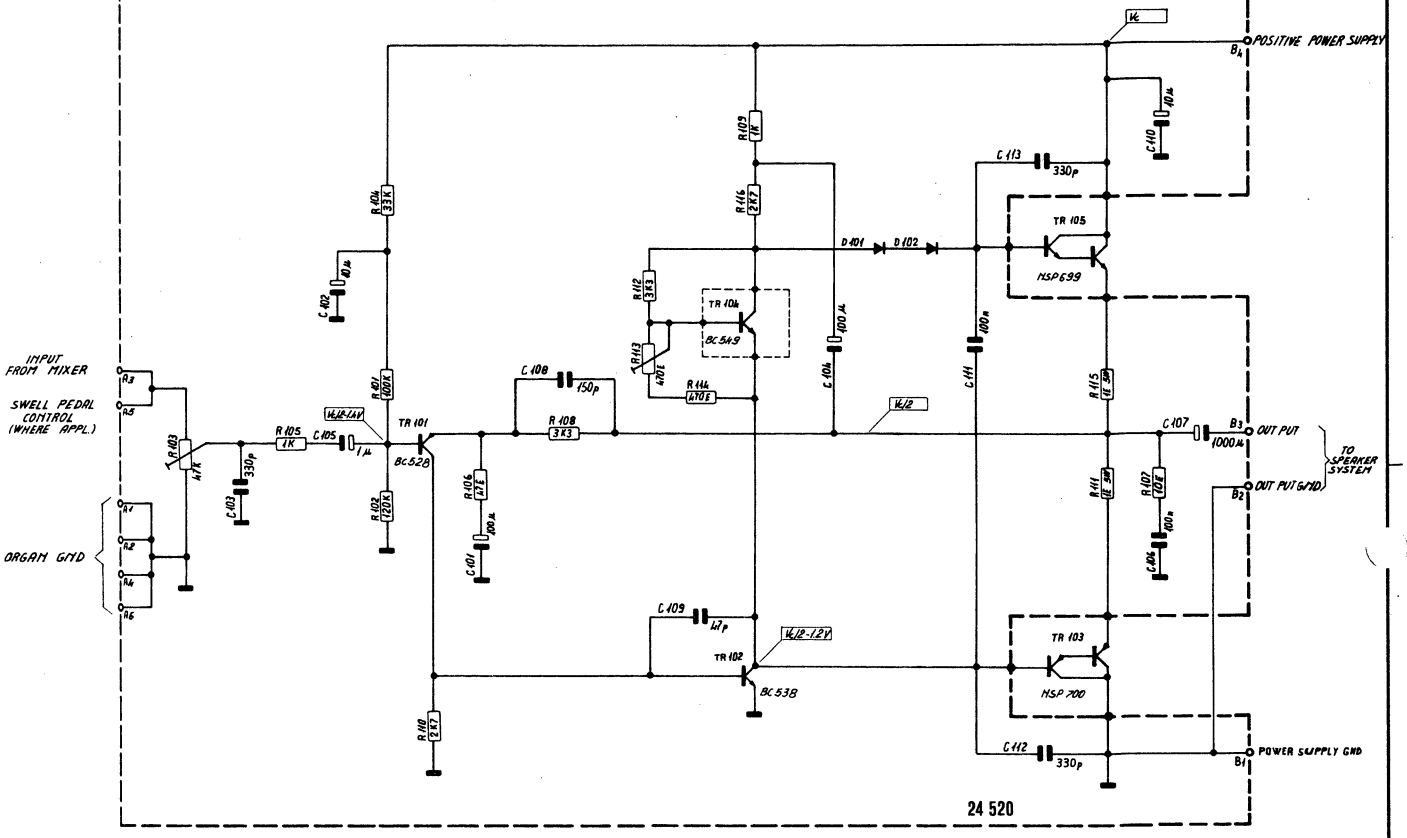
N°. 50.089

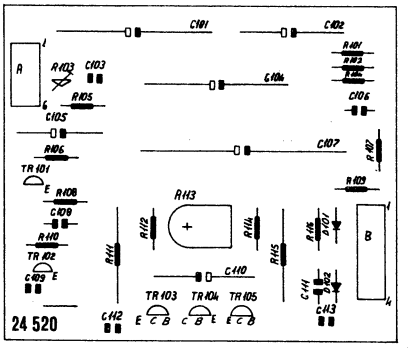
REPLACED BY

REPLACING

SCHEMATIC DIAGRAM: POWER SUPPLY, RECTIFIERS & VOLTAGE REGULATOR

76.297 POWER AMPLIFIER BOARD





NOTES: 1) ALL RESISTOR ¼ W UNLESS OTHERWISE SPECIFIED

2) ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND WITHOUT SIGNAL

3) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED

ISSUED	DATE	BY
DRAWN	5-5-80	
CKD	5-5-80	
APPRVD		

USED ON:

DDR MONDOVINO (FO)

Nº. 50.001

REPLACED DY

REPLACING

SCHEMATIC DIAGRAM:

73.028 POWER AMPLIFIER

INDEX

PAGE	D.W.G.	DESCRIPTION	P.C. BOARD	PART CODE	PART LIST PAGE	LAY OUT PAGE
1	50.091	H 6000 BLOCK DIAGRAM				
2	50.032	NOTES				
3	50.090	H 7000 BLOCK DIAGRAM				
4	50.032	NOTES				
5	50.007	ORGAN MASTER OCTAVE GENERATOR				
		(H 6000)	24.483	74.257		
		(H 7000)	24.483	74.261		
		PIANO MASTER OCTAVE GENERATOR	24.483	74.259		
		1′ 1/3 TO 4′ MASTER OCTAVE PRESCALER (H 6000)	24.484	74.020		
6	50.069	1′ TO 4′ MASTER OCTAVE PRESCALER (H 7000)	24.515	74.025		
7	50.070	UPPER MANUAL GENERATOR				
		LSI organ keyer (2x)	24.448	76.336		
		LSI " " expander I (2x)	24.449	74.019		
		LSI " " " II (2x) (H 7000 ONLY)	24.449	74.024		
		buffer (H 6000:2x)(H 7000:3x)	24.461	76.237		
		u.m. switch board	24.574	81.033		
8	50.072	DOWER MANUAL GENERATOR				
		LSI organ keyer (2x)	24.448	76.337		
		buffer	24.461	76.237		
		l.m. switch board	24.574	81.032		
9	50.071	INSTAPIANO GENERATOR	24.516	74.580		
		keyer timing I (10x)	24.506	74.581		
		" " II (12x)	24.506	75.582		
10	50.073	PEDAL GENERATOR	24.510	74.028		
		Pedal switch board	24.511	81.034		
11	50.074	PEDAL VOICING				
		(H 6000)	24.505	76.356		
		(H 7000)	24.507	76.339		

—Cont.—

ISSUED	DATE	BY
DRAWN		
CKD		
APPRVD		

N 50 093

REPLACED BY

REPLACING

USED ON:

DDR MONTAINO (FO)

SCHEMATIC DIAGRAM:

MASTER INDEX

– Cont'd –

INDEX

PAGE	D.W.G.	DESCRIPTION	P.C. BOARD	PART CODE	PART LIST PAGE	LAY OUT PAGE
12	50.075	ACCOMPANIMENT VOICING (H 6000)	24.518	76.357		
		(H 7000)	24.514	76.340		
		12 channels switch mdl	24.476	76.233		
		262 Hz tibia filter mdl	24.411	76.183		
		523 " " " "	24.411	76.182		
		1046 " " " "	24.411	76.180		
		2093 " " " "	24.411	76.178		
		4186 " " " "	24.411	76.176		
13	50.076	H 6000 INSTAPIANO VOICING	24.468	76.366		
14	50.077	H 7000 INSTAPIANO VOICING	24.549	76.334		
15	50.078	INSTAPIANO CHORUS (H 7000 ANLY)	24.447	76.355		
		triangle ware generator mdl	24.445	76.208		
		delay line mdl	24.441	76.203		
		filter mdl	24.439	76.207		
		buffer mdl	24.446	76.203		
16	50.080	4' 8' 16' TIBIAS & 2nd PERC. 4' VOICING (H 6000 ONLY)	24.473	76.231		
		12 channels switch mdl	24.476	76.233		
		262 Hz tibia filter mdl	24.411	76.183		
		523 " " " "	24.411	76.182		
		1046 " " " " (2x)	24.411	76.180		
		2093 " " " " (2x)	24 411	76.178		
		4186 " " " " (2x)	24.411	76.176		
		TIBIAS & PERC. CONTROLS	24.478	76.229		
17	50.079	1' 2' 4' 8' 16' TIBIAS & 2nd PERC. 4' VOICING (H 7000 ONLY)	24.509	76.344		
		20 channels switch mdl	24.508	76.342		
		262 Hz tibia filter mdl	24.411	76.183		
		523 " " " "	24.411	76.182		
		1046 " " " " (2x)	24.411	76.180		
		2093 " " " " (2x)	24.411	76.178		
		4186 " " " " (2x)	24.411	76.176		
		8372 " " " "	24.411	76.343		
		TIBIAS & PERC. CONTROLS	24.512	76.341		

–Cont.–

ISSUED	DATE	BY
DRAWN		
CKD		
APPRVD		

USED ON:

DDR MONTEBINO (FO)

N. 50 094

REPLACED BY

REPLACING

SCHEMATIC DIAGRAM:

MASTER INDEX

– Cont'd –

INDEX

PAGE	D.W.G.	DESCRIPTION	P.C. BOARD	PART CODE	PART LIST PAGE	LAY OUT PAGE
18	50.081	1'1/3 2' 2/3 5' 1/3 TIBIAS & 3rd PERC. 2'2/3 VOICING	24.473	76.230		
		12 channels switch mdl	24.476	76.233		
		784 Hz tibia filter mdl	24.411	76.181		
		1567 " " " " (2x)	24.411	76.179		
		3135 " " " " (2x)	24.411	76.177		
		6271 " " " " (2x)	24.411	76.175		
		12543 " " " "	24.411	76.173		
19	50.082	SOLO VOICING (H 6000)	24.519	76.358		
		(H 7000)	24.513	76.345		
20	50.083	ORCHESTRAL PRESETS PULSE SHAPER	24.524	76.335		
21	50.084	ORCHESTRAL PRESETS VOICING	24.524	76.335		
22	50.085	INSTASTRINGS VOICING	24.524	76.335		
		volume & attack controls mdl	24.578			
23	50.086	INSTASTRINGS CHORUS	24.575	76.354		
		.63 Hz triphase gen. mdl	24.440	76.352		
		6.3 " " " "	24.440	76.351		
		delay line mdl (3x)	24.441	76.350		
		buffer mdl	24.573	76.353		
24	50.087	KEY DETECTOR	24.547	76.349		
		logic mdl (2x)	24.548	76.348		
		EFFECTS CONTROLS (H 6000)	24.529	76.359		
		(H 7000)	24.528	76.338		
25	50.019	MIXER & REVERB	24.517	76.347		
		Volume controls mdl	24.550	76.333		
26	50.088	POWER SUPPLY, MAIN (117 Vac)		73.569		
		(220 V)		73.558		
		fuseholder board (220 V only)	24.544	76.304		
		leslie motor control board (117 Vac)	24.545	76.367		
		(220 V)	24.545	76.300		
		LESLIE UNIT (117 Vac)				
		(220 V)		79.019		
		SPEAKER SYSTEM				

–Cont.–

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PAGE	D.W.G.	DESCRIPTION	P.C. BOARD	PART CODE	PART LIST PAGE	LAY OUT PAGE
27	50.089	POWER SUPPLY, RECTIFIER & VOLTAGE REGULATOR	24.546	73.567 79.033		
		SWELL PEDAL opto control board	24.547	76.293		
28	50.001	POWER AMPLIFIER board	24.520	73.028 76.297		
29	50.093	MASTER INDEX				
30	50.094	MASTER INDEX				
31	50.095	MASTER INDEX				
32	50.096	MASTER INDEX				

ISSUED	DATE	BY
DRAWN		
CKD		
APPRD		

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